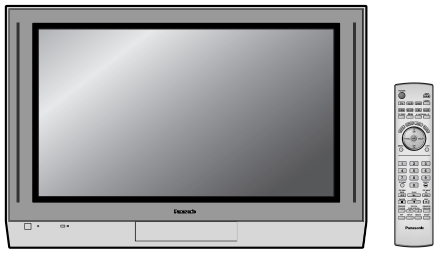
Panasonic®



Operating Instructions
Digital High Definition
Plasma Television

Model No. **TH-37PX25**
TH-42PX25
TH-50PX25



For assistance, please call : 1-888-VIEW-PTV(843-9788) **or send e-mail to : consumerproducts@panasonic.com** **or visit us at www.panasonic.com**	**(U.S.A.)**
For assistance, please call : 787-750-4300 **or visit us at www.panasonic.com**	**(Puerto Rico)**

Before connecting, operating or adjusting this product, please read these instructions completely.
Please keep this manual for future reference.

English

TQB2AA0520

WARNING

RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING: To reduce the risk of electric shock, do not remove cover or back. No user-serviceable parts inside. Refer servicing to qualified service personnel.

The lightning flash with arrow-head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.

The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Do not place liquid containers (flower vase, cups, cosmetics, etc.) above the set. (including on shelves above, etc.)

WARNING: AS WITH ANY SMALL OBJECT, SD CARDS CAN BE SWALLOWED BY YOUNG CHILDREN. DO NOT ALLOW CHILDREN TO HANDLE THE SD CARD.

WARNING: 1) To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.
2) Do not remove the grounding pin on the power plug. This apparatus is equipped with a three pin grounding-type power plug. This plug will only fit a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician. Do not defeat the purpose of the grounding plug.

Note:

Do not allow a still picture to be displayed for an extended period, as this can cause a permanent after-image to remain on the Plasma Television.

Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.

Manufactured under license from Dolby Laboratories.

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HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

: SD Logo is a trademark.

Manufactured under license from BBE Sound, Inc.

Licensed by BBE Sound, Inc. under USP4638258, 4482866, 5510752 and 5736897. BBE and BBE symbol are registered trademarks of BBE Sound, Inc.

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

U.S. Patents Nos. 4,631,603; 4,577,216; 4,819,098; 4,907,093; 6,381,747; and 6,516,132.

Important Safety Instructions

1) Read these instructions.

2) Keep these instructions.

3) Heed all warnings.

4) Follow all instructions.

5) Do not use this apparatus near water.

6) Clean only with dry cloth.

7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11) Only use attachments / accessories specified by the manufacturer.

12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.



13) Unplug this apparatus during lightning storms or when unused for long periods of time.

14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15) To prevent electric shock, ensure the grounding pin on the AC cord power plug is securely connected.

Dear Panasonic Customer

Welcome to the Panasonic family of customers. We hope that you will have many years of enjoyment from your new Plasma TV.
To obtain maximum benefit from your set, please read these Instructions before making any adjustments, and retain them for future reference.
Retain your purchase receipt also, and record the model number and serial number of your set in the space provided on the back cover of these instructions.

Visit our Panasonic Web Site : www.panasonic.com

For assistance, please call : 1-888-VIEW-PTV(843-9788) **or send e-mail to : consumerproducts@panasonic.com** **or visit us at www.panasonic.com**	**(U.S.A.)**
For assistance, please call : 787-750-4300 **or visit us at www.panasonic.com**	**(Puerto Rico)**

FCC STATEMENT

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC CAUTION:
To assure continued compliance and possible undesirable interference, the provided ferrite cores must be used when connecting this plasma television to video equipment; and maintain at least 40 cm spacing to other peripheral devices. Refer to instructions on pages 10, 13, 14, 17, 18.
Any changes or modifications to this TV not expressly approved by Matsushita Electric Corporation of America could result harmful interference and would void the user's authority to operate this device.

FCC Declaration of Conformity
Model No. TH-37PX25, TH-42PX25, TH-50PX25

Responsible Party:	Matsushita Electric Corporation of America One Panasonic Way, Secaucus, NJ 07094
Contact Source:	Panasonic Consumer Electronics Company 1-888-843-9788 email: consumerproducts@panasonic.com

Trademark Credits

- VGA is a trademark of International Business Machines Corporation.
- Macintosh is a registered trademark of Apple Computer, USA.
- S-VGA is a registered trademark of the Video Electronics Standard Association.

Even if no special notation has been made of company or product trademarks, these trademarks have been fully respected.

Table of Contents

Safety Precautions

⚠ WARNING

Set up

Do not place the Plasma TV on sloped or unstable surfaces.
- The Plasma TV may fall off or tip over.

Do not place any objects on top of the Plasma TV.
- If water spills onto the Plasma TV or foreign objects get inside it, a short-circuit may occur which could result in fire or electric shock. If any foreign objects get inside the Plasma TV, please consult an Authorized Service Center.

Do not cover the ventilation holes.
- Doing so may cause the Plasma TV to overheat, which can cause fire or damage to the Plasma TV.

If using the pedestal, leave a space of $3\frac{15}{16}$" (10 cm) or more at the top, left and right, $2\frac{3}{8}$" (6 cm) or more at the bottom, and $2\frac{3}{4}$" (7 cm) or more at the rear. If using some other setting-up method, leave a space of $3\frac{15}{16}$" (10 cm) or more at the top, bottom, left and right, and $\frac{3}{4}$" (1.9 cm) or more at the rear.

Avoid installing this product near electronic equipment that easily receives electromagnetic waves.
- It may cause interference in image, sound, etc. In particular, keep video equipment away from this product.

AC Power Supply Cord

The Plasma TV is designed to operate on 120 V AC, 50/60 Hz.

Securely insert the power cord plug as far as it will go.
- If the plug is not fully inserted, heat may be generated which could cause fire. If the plug is damaged or the wall socket plate is loose, they should not be used.

Do not handle the power cord plug with wet hands.
- Doing so may cause electric shocks.

Do not do anything that might damage the power cable. When disconnecting the power cable, hold the plug, not the cable.
- Do not make any modifications, place heavy objects on, place near hot objects, heat, bend, twist or forcefully pull the power cable. Doing so may cause damage to the power cable which can cause fire or electric shock. If damage to the cable is suspected, have it repaired at an Authorized Service Center.

If the Plasma TV will not be used for a long period of time, unplug the power cord from the wall outlet.

If problems occur during use

If a problem occurs (such as no picture or no sound), or if smoke or an abnormal odor is detected from the Plasma TV, unplug the power cord immediately.
- Continuous use of the TV under these conditions might cause fire or permanent damage to the unit. Have the TV evaluated at an Authorized Service Center. Services to the TV by any unauthorized personnel are strongly discouraged due to its high voltage dangerous nature.

If water or foreign objects get inside the Plasma TV, if the Plasma TV is dropped, or if the cabinet becomes damaged, disconnect the power cord plug immediately.
- A short may occur, which could cause fire. Contact an Authorized Service Center for any repairs that need to be made.

⚠ CAUTION

This Plasma TV is for use only with the following optional accessories. Use with any other type of optional accessories may cause instability which could result in the possibility of injury.

(All of the following accessories are manufactured by Matsushita Electric Industrial Co., Ltd.)

- Pedestal (included) TY-ST42PX20 (TH-37PX25, TH-42PX25)
  TY-ST50PX20 (TH-50PX25)
- Wall-hanging bracket (Vertical) TY-WK42PV3U
- Wall-hanging bracket (Angled) TY-WK42PR2U
- Display stand TY-S37PX20W (TH-37PX25)
  TY-S42PX20W (TH-42PX25)
  TY-S50PX20W (TH-50PX25)
  TY-DP4201W (TH-37PX25, TH-42PX25, TH-50PX25)

Always be sure to ask a qualified technician to carry out set-up.

When using the Plasma TV

Do not bring your hands, face or objects close to the ventilation holes of the Plasma TV.
- Top of the Plasma TV is usually very hot due to the high temperature of exhaust air being released through the ventilation holes. Burns or personal injuries can happen if any body parts are brought too close. Placing any object near the top of the TV could also result in heat damages to the object as well as to the TV if its ventilation holes are blocked.

Be sure to disconnect all cables before moving the Plasma TV.
- Moving the TV with its cables attached might damage the cables which, in turn, can cause fire or electric shock.

Disconnect the power plug from the wall outlet as a safety precaution before carrying out any cleaning.
- Electric shocks can result if this is not done.

Clean the power cable regularly to prevent it from becoming dusty.
- Built-up dust on the power cord plug can increase humidity which might damage the insulation and cause fire. Unplug the cord from the wall outlet and clean it with a dry cloth.

This Plasma TV radiates infrared rays, therefore it may affect other infrared communication equipment.
Install your infrared sensor in a place away from direct or reflected light from your Plasma TV.

Cleaning and maintenance

The front of the display panel has been specially treated. Wipe the panel surface gently using only a cleaning cloth or a soft, lint-free cloth.
- If the surface is particularly dirty, soak a soft, lint-free cloth in a weak detergent solution and then wring the cloth to remove excess liquid. Use this cloth to wipe the surface of the display panel, then wipe it evenly with a dry cloth, of the same type, until the surface is dry.
- Do not scratch or hit the surface of the panel with fingernails or other hard objects. Furthermore, avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the surface may be adversely affected.

If the cabinet becomes dirty, wipe it with a soft, dry cloth.
- If the cabinet is particularly dirty, soak the cloth in a weak detergent solution and then wring the cloth dry. Use this cloth to wipe the cabinet, and then wipe it dry with a dry cloth.
- Do not allow any detergent to come into direct contact with the surface of the Plasma TV.
  If water droplets get inside the unit, operating problems may result.
- Avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the cabinet surface may be adversely affected or the coating may peel off. Furthermore, do not leave it for long periods in contact with articles made from rubber or PVC.

Note:
Do not allow a still picture to be displayed for an extended period, as this can cause a permanent after-image to remain on the Plasma TV.
Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.

Installation

Receiver Location

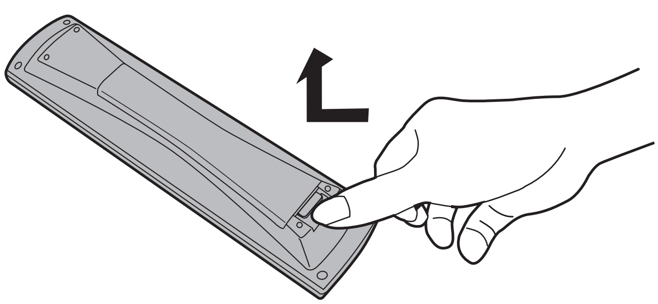
This unit is intended to be used with an optional stand or entertainment center. Consult your dealer for available options. Locate for comfortable viewing. Avoid placing where sunlight or other bright light (including reflections) will fall on the screen.
Use of some types of fluorescent lighting can reduce remote control transmitter range.
Adequate ventilation is essential to prevent internal component failure. Keep away from areas of excessive heat or moisture.

Optional External Equipment

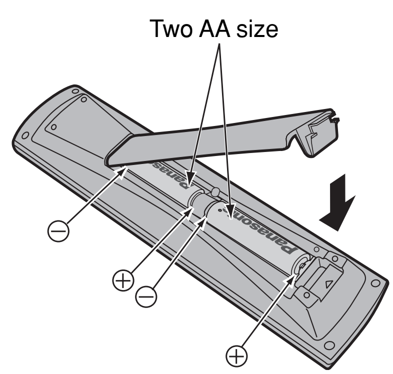
The Video/Audio connection between components can be made with shielded video and audio cables. For best performance, video cables should utilize 75 ohm coaxial shielded wire. Cables are available from your dealer or electronic supply store. Before you purchase any cables, be sure you know what type of output and input connectors your various components require. Also determine the length of cable you will need.

Remote Control Battery Installation

1. Open the cover.



2. Install the batteries and replace the cover.
   Note the correct polarity (+ and −).



Helpful Hints:

For frequent remote control users, replace old batteries with alkaline batteries for longer life.

Helpful Hints:

Whenever you remove the batteries, **you may need to reset the remote control infrared codes.** We recommend that you record the code on page 59, prior to setting up the remote control.

⚠ Precaution on battery use

Incorrect installation can cause battery leakage and corrosion that will damage the remote control transmitter.

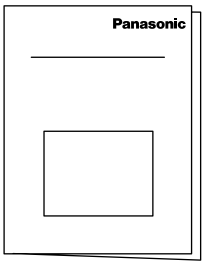
Observe the following precautions:

1. Batteries should always be replaced as a pair. Always use new batteries when replacing the old set.
2. Do not combine a used battery with a new one.
3. Do not mix battery types (example: “Zinc Carbon” with “Alkaline”).
4. Do not attempt to charge, short-circuit, disassemble, heat or burn used batteries.
5. Battery replacement is necessary when remote control acts sporadically or stops operating the TV set.

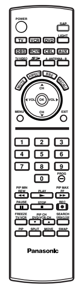
Accessories

Check that you have the Accessories and items shown

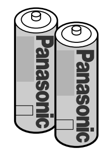
☐ Operating Instruction book



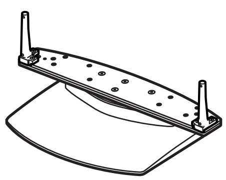
☐ Remote control EUR7627Z10



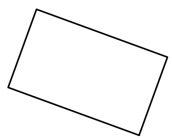
☐ Batteries for the remote control (AA Battery × 2)



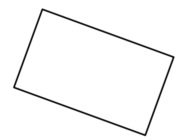
☐ Pedestal
TY-ST42PX20 (TH-37PX25, TH-42PX25)
TY-ST50PX20 (TH-50PX25)



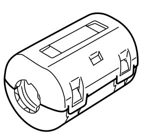
☐ Registration card



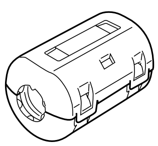
☐ Customer care plan card



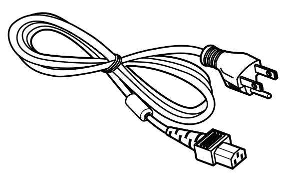
☐ Ferrite core
Small size × 5



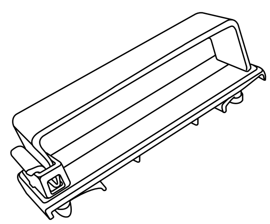
Large size × 4



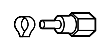
☐ AC cord



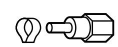
☐ Clamper (×2)



☐ F-Type antenna adapter
(for 3C-2V) (×2)



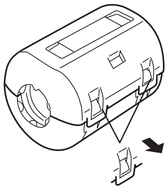
(for 5C-2V) (×2)



Attaching the ferrite core

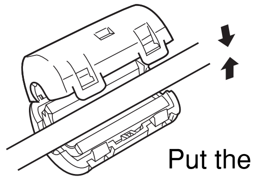
Be sure to choose the appropriate size of ferrite core (large or small) and the correct setting of the cable (winding or passing), as indicated by each connection diagram on the following pages (13, 14, 17, 18).

1

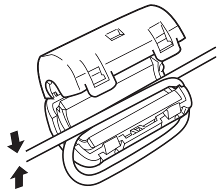


Pull back the tabs (in two places) to open.

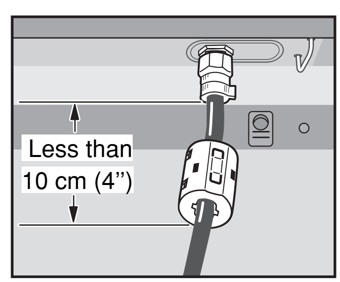
2 (Large size)



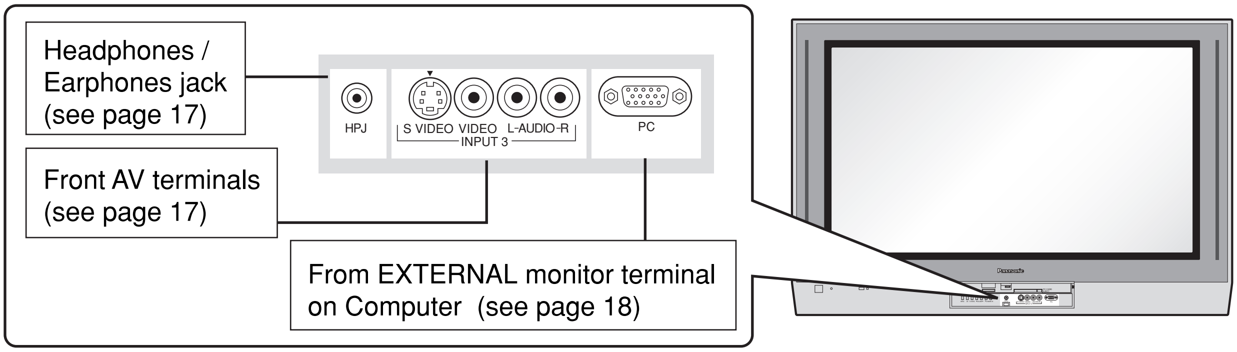
(Small size)

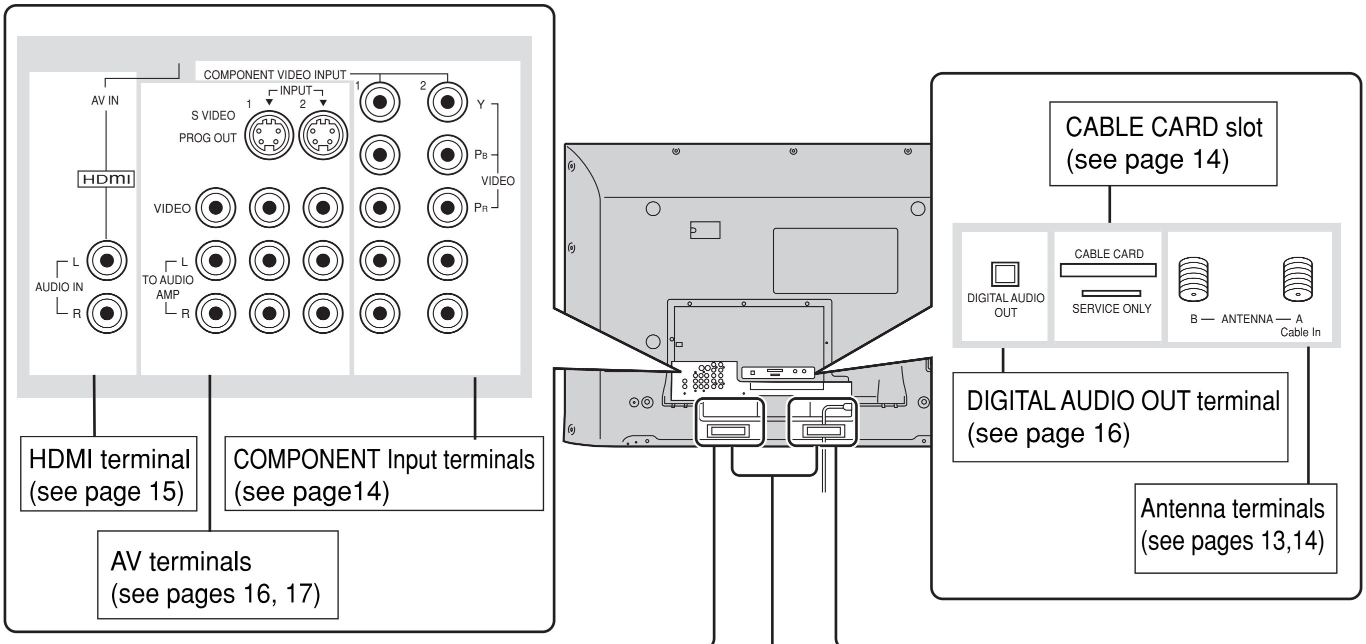


Put the cable and close.

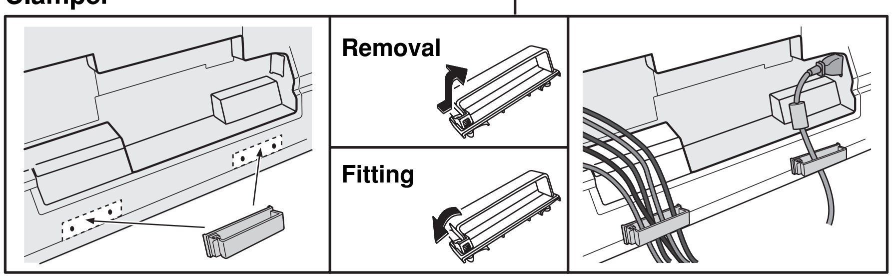


Cable Connection



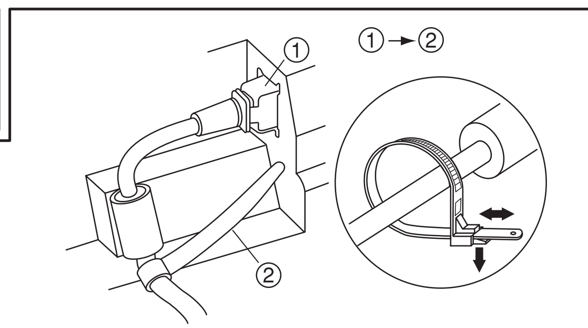


Clamper

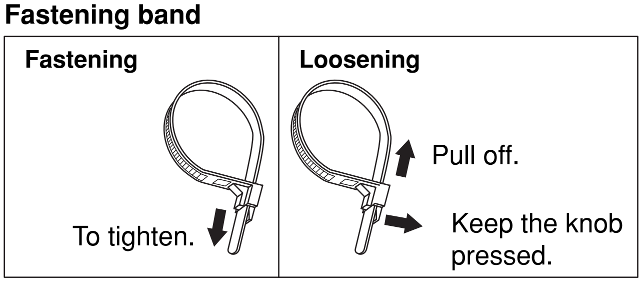


Fastening the power and other cables

Fastening method of other cables
Attach the clamper on the installation hole, and fasten them.
Bundle the cable with the cable fastening clamper.

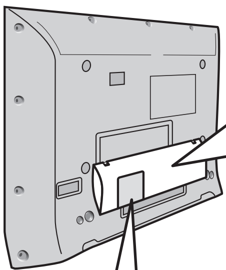


Fastening band

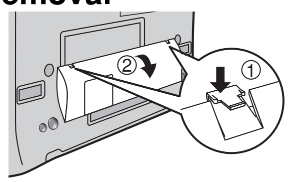


Fastening method of the power cable
1. Insert the power plug into the main body.
2. Fasten with the power cable fastening band.

Cable Cover Removal and Fitting

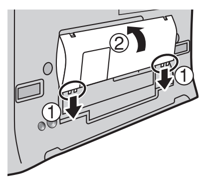


Removal

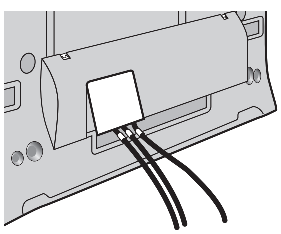


1. Push down hooks and pull the cover slightly towards yourself to disengage the claws (at 4 points).
2. Slowly pull out in the downward direction.

Fitting

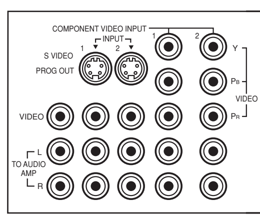


1. Insert the claws (at 4 points) at the bottom end.
2. Push the cover until hooks will be cricked.



(This window cannot close completely if you connect the cables.)

When connecting to the rear AV input/output terminals, connect the cables through this window.



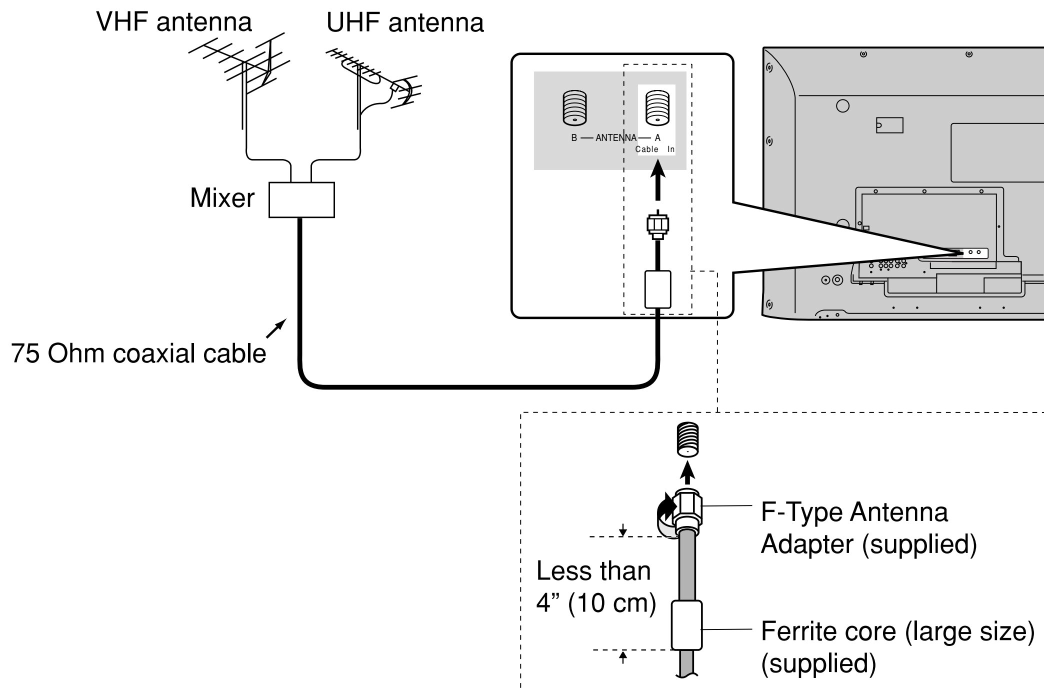
The rear AV input/output terminals

Other cables should be connected before fitting the cable cover.

Note:
Cables and adapters are not supplied with this set unless otherwise indicated.

Antenna Connection

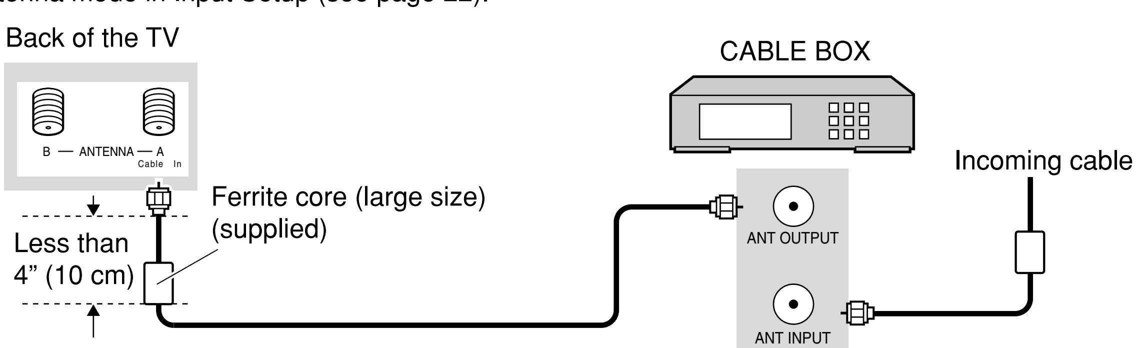
- For proper reception of VHF/UHF channels, an external antenna is required. For best reception, an outdoor antenna is recommended.
- When you enjoy the terrestrial TV programs only, connect the home antenna to ANTENNA (A).
  When you enjoy both the terrestrial TV programs and the cable TV programs, **connect the cable TV's cable to ANTENNA (A), and the terrestrial antenna cable to ANTENNA (B).**
- Select the antenna mode in Input Setup (see page 22).



Notes:
- Certain cable systems offset some channels to reduce interference or have Premium (scrambled) channels. A cable converter box is required for proper reception. Check with your local cable company for its compatibility requirements.
- To obtain optimum quality picture and sound, an antenna, the correct cable (75 Ohm coaxial) and the correct terminating plug are required.
- If a communal antenna system is used, you may require the correct connection cable and plug between the wall antenna socket and your television receiver.
- Your local television service centre or dealer may be able to assist you in obtaining the correct antenna system for your particular area and the accessories required.
- Any matters regarding antenna installation, upgrading of existing systems or accessories required, and the costs incurred, are your responsibility.

Cable Box Connection

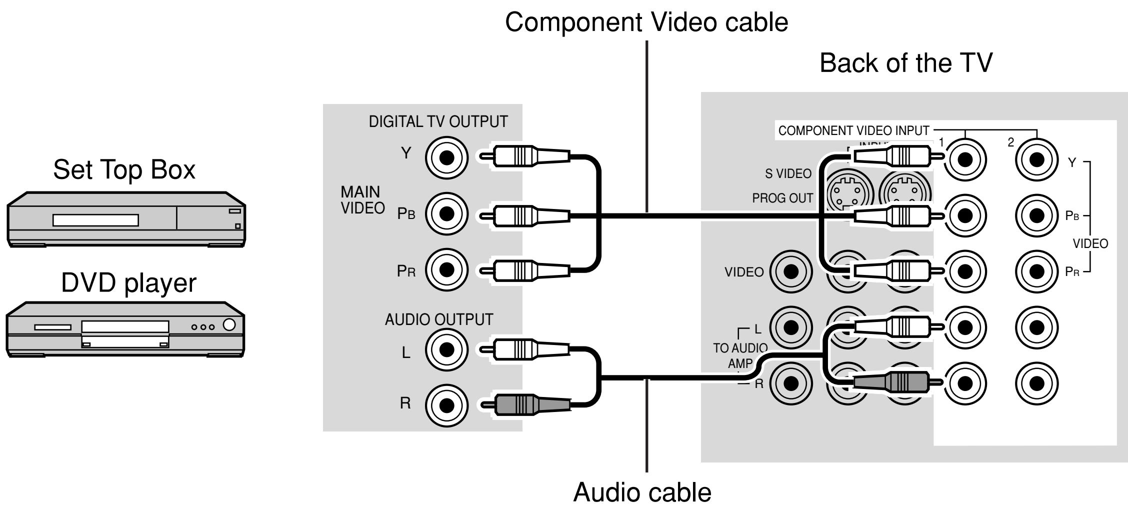
- When you enjoy the cable TV programs only, connect the cable TV's cable to ANTENNA (A). When you enjoy both the terrestrial TV programs and the cable TV programs, **connect the cable TV's cable to ANTENNA (A), and the terrestrial antenna cable to ANTENNA (B).**
- Select the antenna mode in Input Setup (see page 22).



Digital TV - Set-Top Box (DTV-STB) or DVD Connection

This TV is capable of displaying 1080i and 480p DTV signals when connected to a DTV Tuner Set-Top-Box (STB). This TV also utilizes a progressive scan doubler, which de-interlaces the NTSC signal and progressively scans the image. This allows you to sit close to the TV and not see the thin black horizontal lines (venetian blind effect) associated with interlaced TV pictures.

- To view DTV programs, connect the STB to the component video input terminals (Y, P_B, P_R) of the TV. Component color inputs provide luminance and separate color signal.
- Select the output of the STB to either 1080i or 480p.
- A DTV signal must be available in your area.
- Use a Panasonic DTV-STB (Digital TV-Set-Top Box) or DVD Player.

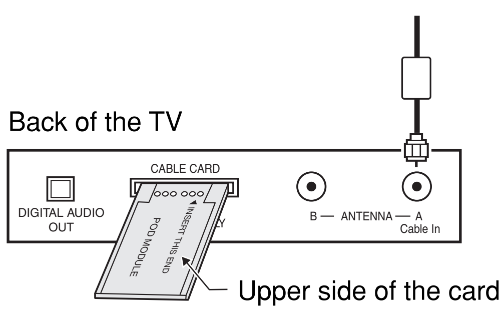


CableCARD Connection

CableCARD allows you to tune digital and high definition cable channels through the cable antenna. Consult your cable company on the availability of CableCARD.

Procedure

1. Connect the cable antenna to ANTENNA (A).
2. Turn the TV on (see page 19).
3. Set the input mode to TV (see page 20).
4. Insert the CableCARD (as it's upper side facing to your side) into CABLE CARD slot on the back of the TV. Follow the messages displayed on the screen.



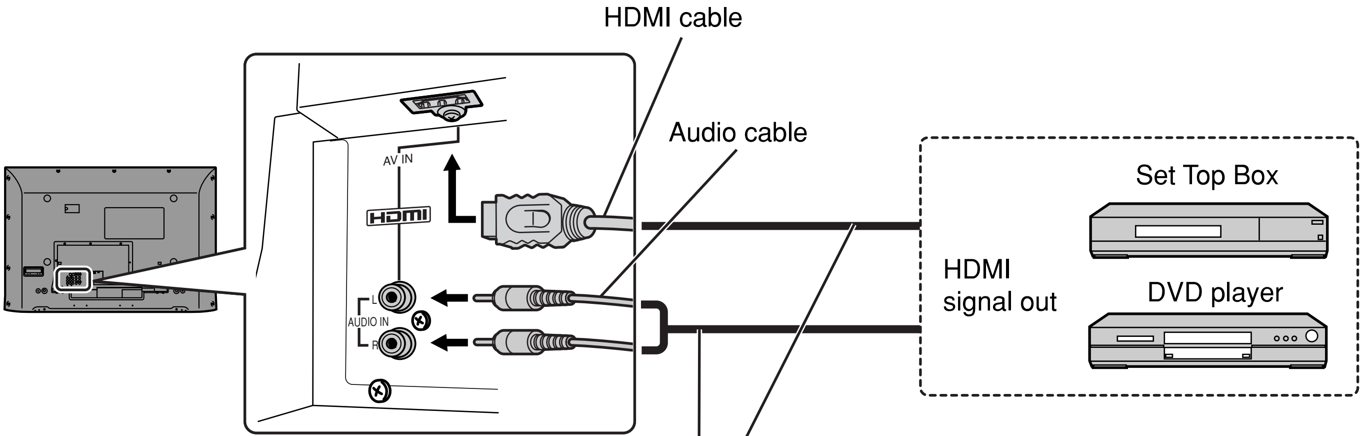
Notes:

- If you experience keyboard or remote control function hang-up when using CableCARD, unplug the TV and plug it back on and try the controls again. If this condition still exists, please call Panasonic Customer Call Center for further instructions.
- Do not insert a PCMCIA card into CABLE CARD slot.

HDMI Connection

HDMI*1 (High Definition Multi media Interface) is the first all digital consumer electronics A/V interface that supports uncompressed standard. The HDMI terminal supports both video and audio information.
To the HDMI*1 input terminal, you can connect an EIA/CEA-861/861B*2 compliant consumer electronic device, such as a Set Top Box or DVD player with HDMI or DVI output terminal.

Input a High-bandwidth Digital Content Protection (HDCP) high-definition picture source to this HDMI terminal, so you can display the high-definition pictures on this TV in the digital form.



- If the external device has DVI output only, use a DVI to HDMI adapter cable*3 to connect to the HDMI terminal.
- Connect the audio cables to the AUDIO IN terminals for HDMI.
- Select the audio setting in HDMI In (see page 29).

■ Compatible VIDEO Signal

	No. of dots (H × V)	Vertical scanning frequency (Hz)
1080i	1,920 × 1,080i	59.94/60
480p	720 × 480p	59.94/60
	640 × 480p	59.94/60
480i	720(1,440) × 480i	59.94/60

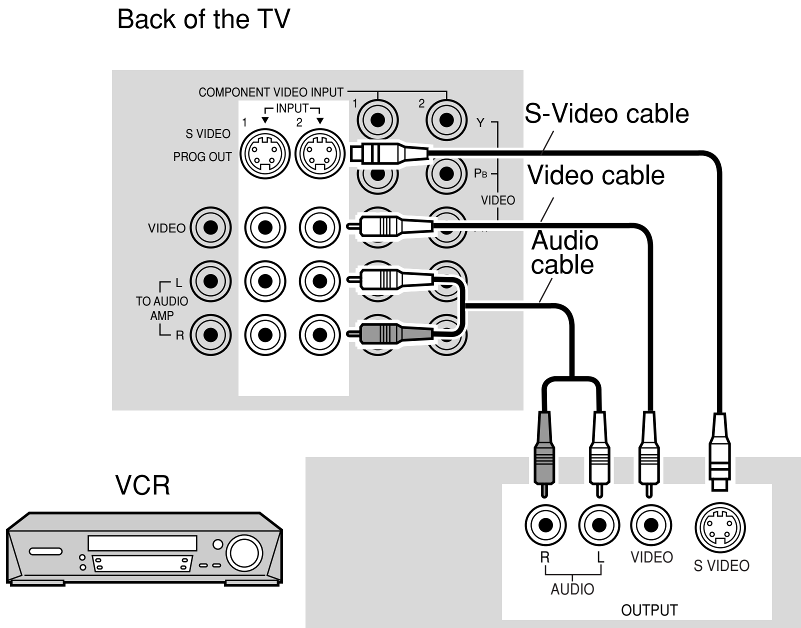
This input terminal is not intended for use with computers.

■ Compatible sampling freguency of AUDIO signal through HDMI (L.PCM) : 48kHz / 44.1kHz / 32 kHz

Notes:
- This HDMI connector is Type A.
- If you connect an equipment without a digital output terminal, connect to the COMPONENT VIDEO, S VIDEO or VIDEO input terminal on the TV so you can enjoy an analog signal.
- The DIGITAL IN terminal can only be used with 1080i, 480i or 480p picture signals. Set the Digital Set -Top -Box DIGITAL OUT terminal Output setting to 1080i, 480i or 480p. For detailed information, refer to the Digital Set -Top -Box instruction manual. If you cannot display the picture because your Digital Set -Top -Box does not have a DIGITAL OUT terminal Output setting, use the component Video Input (or the S Video Input or Video Input). In this case the picture will be displayed as an analog signal.

*1. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
*2. EIA/CEA-861/861B profiles compliance covers profiles for transmission of uncompressed digital video including high bandwidth digital content protection.
*3. HDMI-DVI conversion cable (TY-SCHO3DH): available on Panasonic Website (www.panasonic.com). Consult your consumer electronics dealer for availability details.

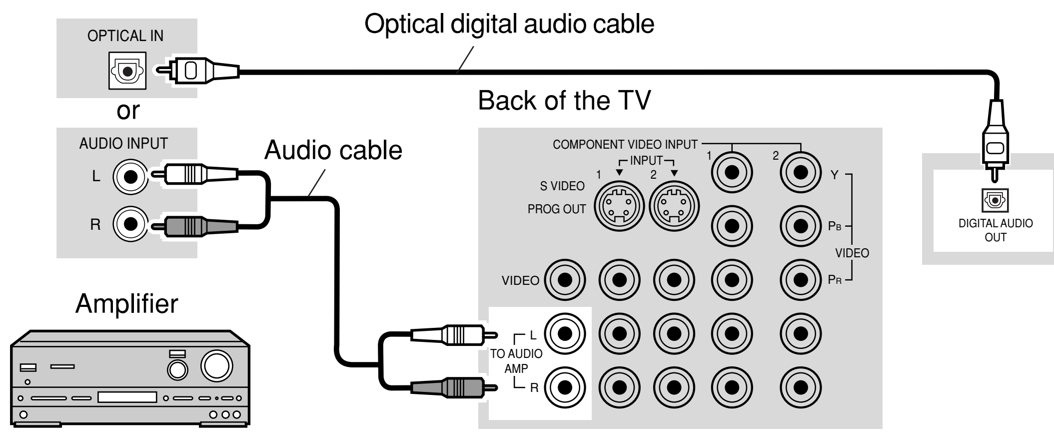
VCR Connection



Amplifier Connection (TO AUDIO AMP)

For a full Home Theater sound experience, an external Dolby Digital* decoder and a multichannel amplifier must be connected to the DIGITAL AUDIO OUT terminal on the TV.

*Dolby Digital 5.1 channel surround sound delivers digital-quality sound. Dolby Digital provides five discrete full-bandwidth channels for front left, front right, center, surround left and surround right, plus a LFE (Low Frequency Effect) subwoofer channel.



Procedure

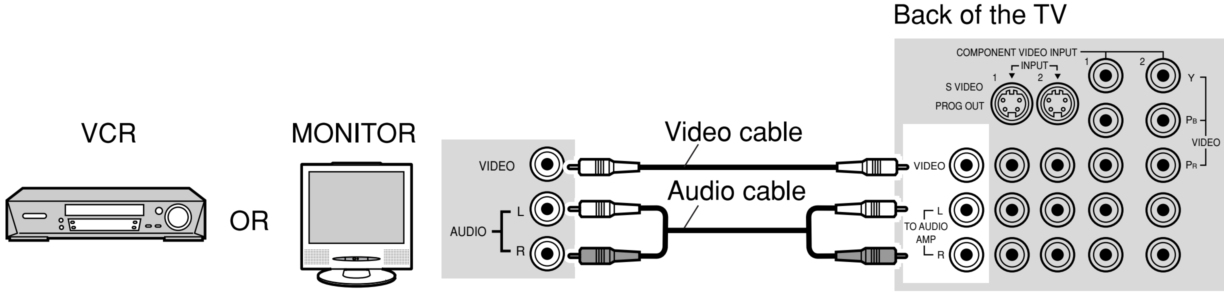
1. Select Speakers "Off" in Audio menu (see page 29).
2. Adjust the amplifier volume to the desired level.

Notes:

- External speakers cannot be connected directly to TO AUDIO AMP terminals.
- When ATSC channel is selected, the output from the DIGITAL AUDIO OUT jack will be Dolby Digital. When NTSC channel is selected, the output will be PCM.

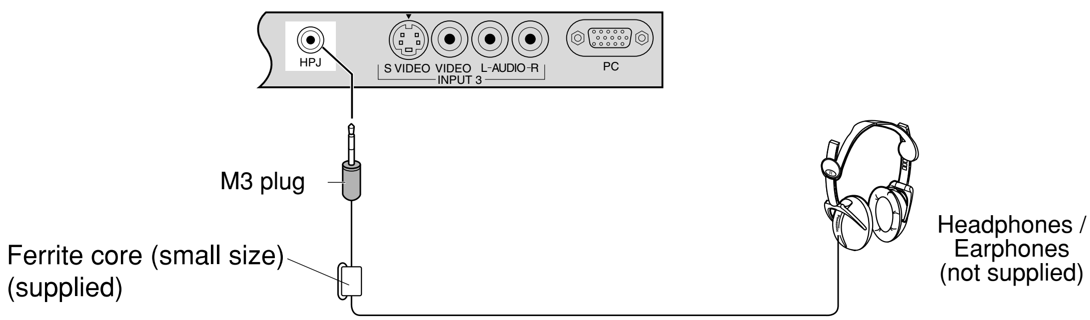
Program Out Connection (PROG OUT)

See optional equipment manual for further instructions for recording and monitoring.



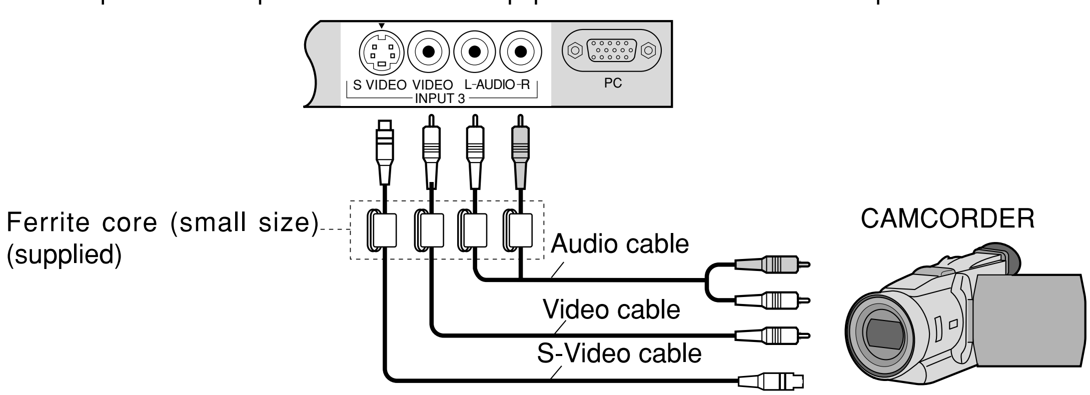
Notes:
- When a device (STB, DVD, etc.) is connected to the HDMI terminal (see page 15), no video or audio is output due to license restrictions.
- Program Out signal may not be available when COMPONENT input (see page 20) is selected for the Main picture during PIP or SPLIT operation (see pages 52, 54).
- When receiving digital channel signals, all digital formats are down-converted to composite NTSC video to be output through Program Out terminals.
- Some programs contain Macrovision signal to prevent VCR recording.

Connecting Headphones / Earphones



Connecting to the front AV terminals

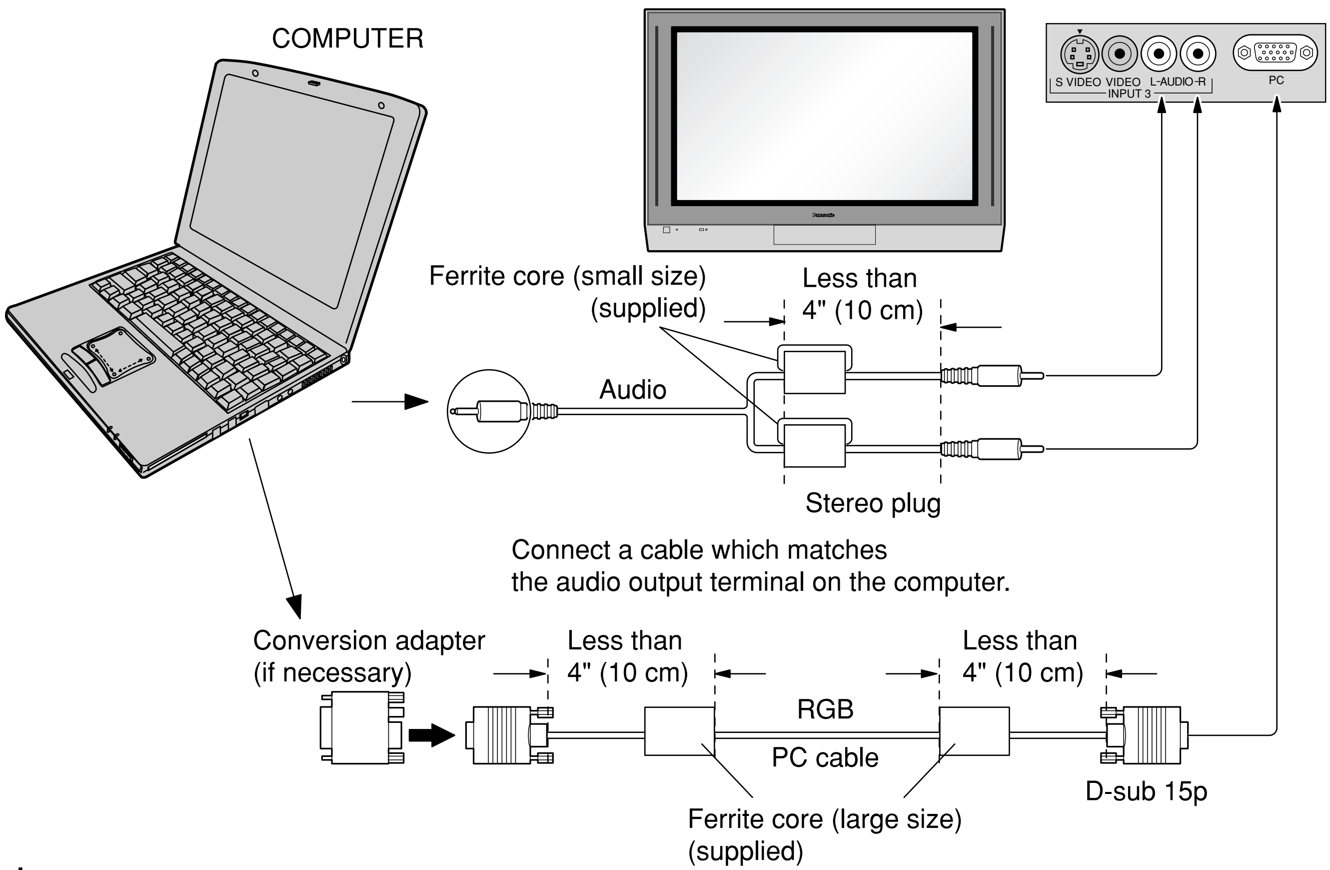
Push to open the front panel and connect equipment to front Audio/Video input terminals.



A second VCR, video disc player, video game equipment and DSS equipment can also be connected to the video input terminals. See the optional equipment manual for details.

Note:
The S-VIDEO connection provides higher quality picture. It overrides other VIDEO connections. Use INPUT 3, AUDIO L and R with S-VIDEO connection.

PC Input Terminals Connection



Notes:

(1) Computer signals which can be input are those with a horizontal scanning frequency of 15 to 110 kHz and vertical scanning frequency of 48 to 120 Hz. (However, the image will not be displayed properly if the signals exceed 1,200 lines.)

(2) The maximum resolution:

Model	Aspect	
	4:3	16:9
TH-37PX25	768 × 720	1,024 × 720
TH-42PX25	768 × 768	1,024 × 768
TH-50PX25	1,024 × 768	1,366 × 768

If the display resolution exceeds these maximums, it may not be possible to show fine detail with sufficient clarity.

(3) Some PC models cannot be connected to the set.

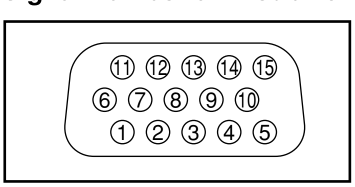
(4) There is no need to use an adapter for computers with DOS/V compatible D-sub 15P terminal.

(5) The computer shown in the illustration is for example purposes only.

(6) Additional equipment and cables shown are not supplied with this set.

(7) Do not set the horizontal and vertical scanning frequencies for PC signals which are above or below the specified frequency range.

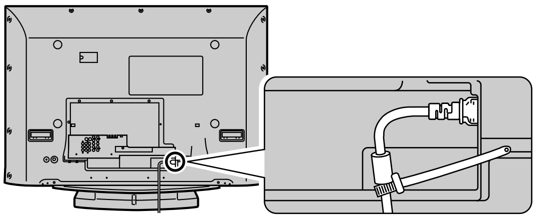
Signal Names for D-sub 15P Connector



Pin Layout for PC Input Terminal

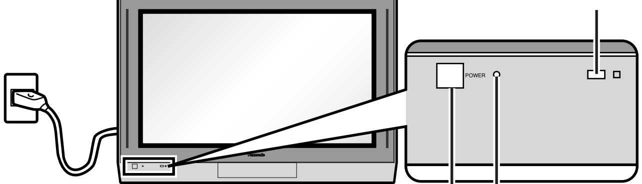
Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
①	R	⑥	GND (Ground)	⑪	NC (not connected)
②	G	⑦	GND (Ground)	⑫	NC
③	B	⑧	GND (Ground)	⑬	HD/SYNC
④	NC (not connected)	⑨	NC (not connected)	⑭	VD
⑤	GND (Ground)	⑩	GND (Ground)	⑮	NC

Power ON / OFF



1 Connect the AC cord plug to the Plasma TV.
• Fix the power cord plug securely with the clamper (see page 11).

Remote control senser



POWER button

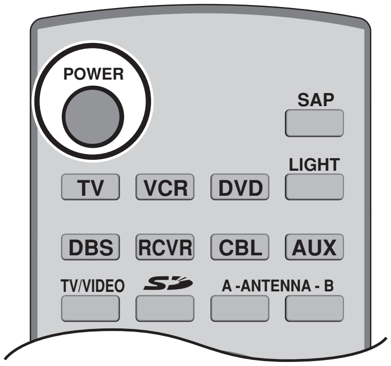
Power indicater
Power on: Red
Power off: No Light

2 Connect the plug to the wall outlet.

3 POWER



Press to turn the TV on or off.



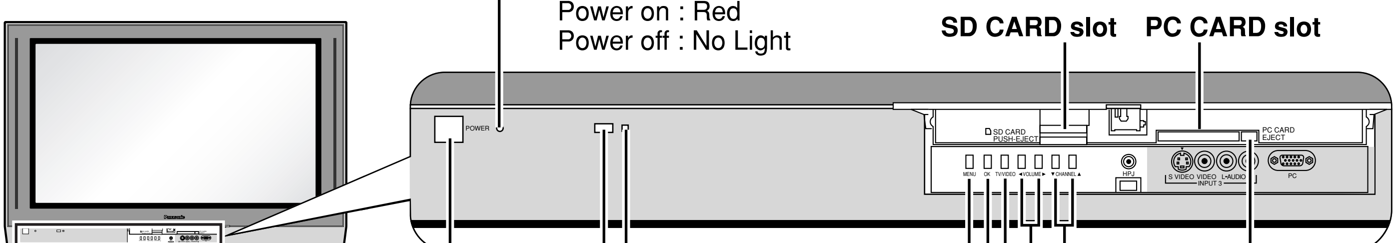
Note:
The TV will still consume some power as long as the power cord is still inserted into the wall outlet.

Location of Controls

The Main Unit

Power indicator
Power on : Red
Power off : No Light

SD CARD slot **PC CARD slot**



POWER button

Remote control sensor

C.A.T.S. sensor
Plasma C.A.T.S. (Contrast Automatic Tracking System) automatically senses the ambient light conditions and adjusts the brightness and gradation accordingly, to optimise contrast.
Effective when Pic Mode is set to Auto (see page 26).

MENU
Display Main Menu or return one step backward in menus (see pages 24, 57).

OK
Choose menu and submenu entry.

PC CARD EJECT button

Channel selectors

Volume adjusters

TV/VIDEO
Change the input mode.

The Illuminated Remote Control

POWER
Turn the TV ON or OFF.

Mode Selection buttons (see page 59)

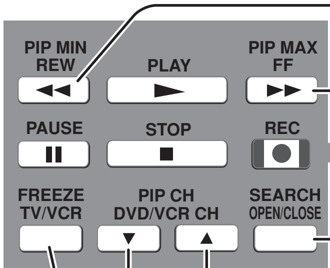
TV: TV
VCR: VCR
DVD: DVD
DBS: Digital Broadcasting Satellite
RCVR: Receiver/Amplifier
CBL: Cable TV
AUX: Aux

TV/VIDEO
Change the input mode.

→ TV → COMPONENT 1 → COMPONENT 2 → HDMI
PC ← VIDEO 3 ← VIDEO 2 ← VIDEO 1 ←

SD
Access Photo Viewer (see page 48).

R-TUNE
Switch to previously viewed channel and input modes.



PIP MIN, PIP MAX
Change the size of PIP frame (see page 52).

Operation of other Device (see pages 63, 64)

SEARCH
Display search frames during PIP or SPLIT operation (see pages 53, 55).

PIP CH
Select the channel during PIP or SPLIT operation (see pages 52, 54).

FREEZE
Freeze the picture (see pages 53, 55).

PIP
PIP (Picture in Picture) Operation (see page 52)
SPLIT
Split Screen (see page 54)
MOVE
Move PIP frame (see page 53).
SWAP
Swap pictures in PIP or SPLIT operation (see page 52, 54).



SAP
- Digital channel
  Select the audio track (if available).

  Audio Track 1 of 1 (English)

- Analog channel
  Cycle through different audio modes.
  ex. If receiving Stereo, SAP and Mono or receiving Stereo and Mono only:
  → Stereo → SAP → Mono ↩

LIGHT
Light the remote control buttons. The selected button blinks when lit.

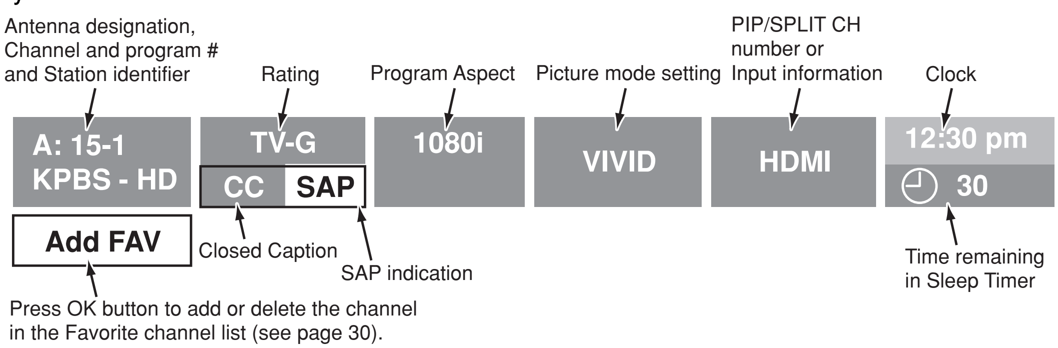
A -ANTENNA - B
Switch to (A or B) RF antenna input.

MUTE
Mute the sound. Press again to cancel the mute.

ASPECT
Change the screen aspect (see page 56).

BBE
Turn BBE VIVA 3D OFF or ON (see page 29).

RECALL
Display or remove the channel banner.

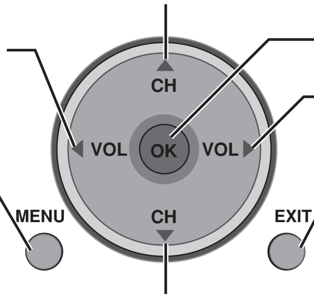


▲ **CH**: Change to the next channel up.
▲ : Move cursor upward during menu mode.

◀ **VOL** : Reduces volume.
◀ : Move cursor to the left during menu mode.

Choose menu and submenu entry.

VOL ▶: Increase volume.
▶ : Move cursor to the right during menu mode.



MENU
Display Main Menu or return one step backward in menus (see pages 24, 57).

EXIT
Exit menus.

▼ **CH**: Change to the next channel down.
▼ : Move cursor downward during menu mode.

Direct program number selection buttons

PROG –: When tuning digital channel, press the button to enter the minor number in a compound channel number.
- To enter the channel number
  ex. CH 15-1: [1] → [5] → [-] → [1] → [OK]

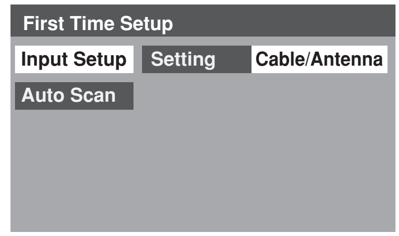
First Time Setup

For your convenience, First Time Setup menu will be displayed on screen when the set is turned on for the first time. If needed, follow the menus and procedures displayed on-screen for setting up the features.
You can also make the settings in Setup menu (see pages 36, 37).

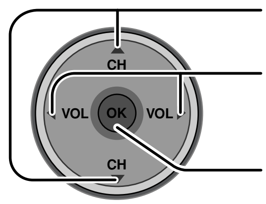


Input Setup

Select the configuration of RF input depending on the signal source.



1

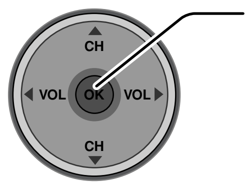


Press to select Input Setup.

Press to select Cable only, Cable/Antenna or Antenna only.

Press to enter your selection.

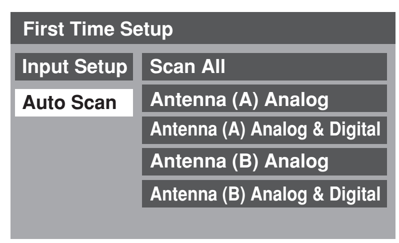
2



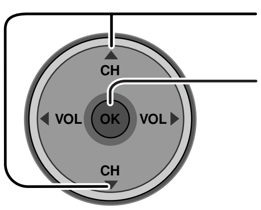
Press to start the Auto Scan.
All available channels with a signal will be programmed into memory.

Auto Scan

This feature allows you to selectively auto scan channels.
You can scan All, Analog only channels or Analog & Digital channels.



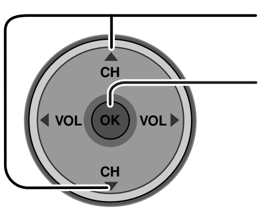
1



Press to select Auto Scan.

Press to enter the sub-menu field.

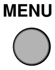
2



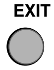
Press to select the sub-menu.

Press to start Auto Scan.
After Auto Scan is completed, the TV tunes to the first channel found during Auto Scan.

To return to the previous menu

Press MENU  .

To exit the menu screen

Press EXIT  .

Notes:
- If the EXIT button is pressed at anytime during Auto Scan, Auto Scan will be cancelled and the TV will return to the First Time Setup menu.
- If a CableCARD is present during the First Time Setup and Antenna (A) is set to cable, Antenna (A) will not be scanned due to the CableCARD providing the channel map.

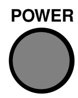
Watching TV programs

VHF and UHF

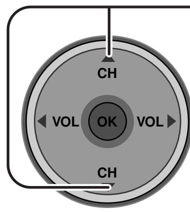


1 

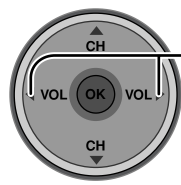
Press to operate the TV set with the remote control.

2 

Press to turn the TV on.

3 

Press to select desired channel.

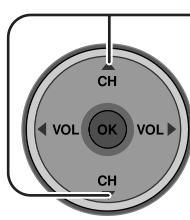
4 

Select the desired volume level.

Notes:
- The channel number and volume level remain the same even after the TV is turned off.
- Power consumption and howling sound can be reduced if the volume level is lowered.

Cable TV

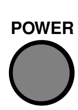
Make sure that registration with cable TV provider and connection of equipment are completed.

1 

Select the TV channel 3 or 4.

2 

Press to operate the cable box with the remote control.

3 

Press to turn the cable box on.

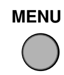
- Point the remote control towards the cable box.

Notes:
- The remote control code number is set for Panasonic products.
- To operate other manufacturer's product (see pages 59 - 64).

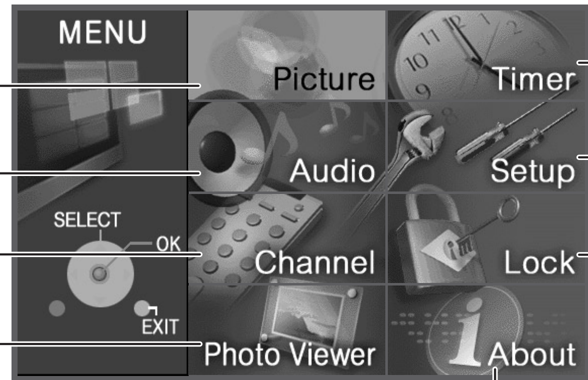
Menu Navigation



1



Press to display the Main menu.



Picture (see page 26)

Audio (see page 28)

Channel (see page 30)

Photo V iewer (see page 46)

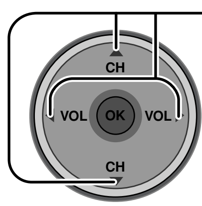
Timer (see page 33)

Setup (see page 36)

Lock (see page 42)

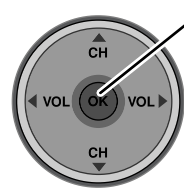
About
The About screen displays assorted information about the TV. Please have this information when calling Customer Care Center.

2



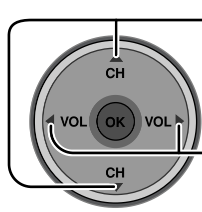
Press to select the menu.

3



Press to enter the sub-menu field.

4



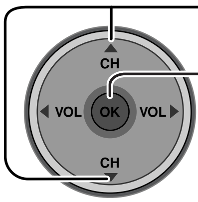
Press to select the sub-menu.

Press to adjust the sub-menu.

ex. Picture menu

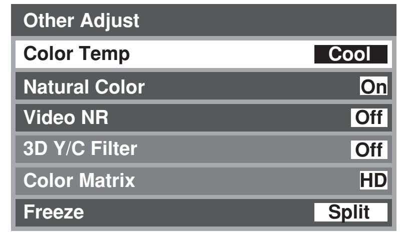
Picture	
Pic Mode	Vivid
Color	31
Tint	31
Brightness	26
Picture	63
Sharpness	50
Normal	No
Other Adjust	

1 [To select Other Adjust sub-menu]

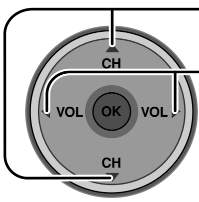


Press to select Other Adjust.

Press to display the sub-menu.



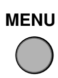
2



Press to select the sub-menu.

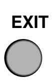
Press to select or activate the sub-menu.

To return to the previous screen



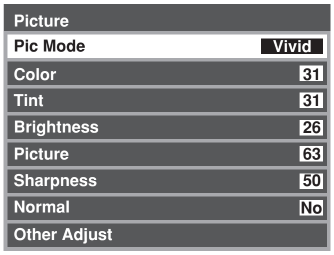
Press to return.

To exit menus



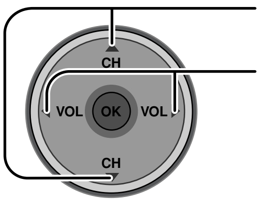
Press to return to normal picture.

Picture



Pic Mode

Lets you choose the pre-set picture modes that best suits the program you are viewing. This feature also affects Color Temp setting (see page 27).



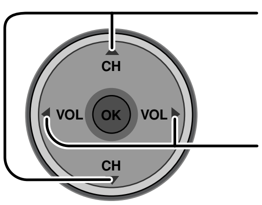
Press to select Pic Mode.

Press to select the picture mode.

- Vivid (default): Provides enhanced picture contrast and sharpness for viewing in a well-lit room.
- Standard : Recommended for normal viewing conditions with subdued room lighting.
- Cinema : For watching movies in a darkened room. It provides a soft, film-like picture.
- Auto : Automatically senses the ambient light conditions and adjusts the brightness and gradation accordingly, to optimise contrast.

Note:
Each mode has its own picture settings (Color, Tint, Brightness, Picture and Sharpness).

Color / Tint / Brightness / Picture / Sharpness / Normal



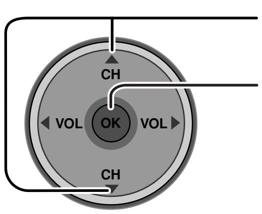
Press to select the sub-menu.

Press to adjust the sub-menu.

Item	Explanations
Color	Adjusts desired color intensity.
Tint	Adjusts natural flesh tones.
Brightness	Adjusts dark areas of picture.
Picture	Adjusts white areas of picture.
Sharpness	Adjusts clarity of outline detail.
Normal	Resets all picture adjustments to factory default settings.

Other Adjust

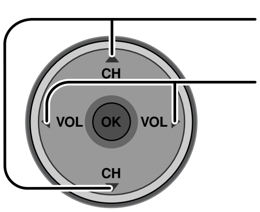
1



Press to select Other Adjust.

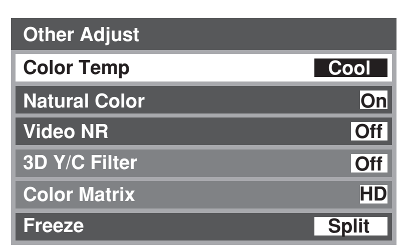
Press to display the sub-menu.

2

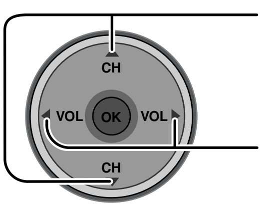


Press to select the sub-menu.

Press to select or activate the sub-menu.



■ Color Temp (temperature) / Natural Color / Video NR / 3D Y/C Filter



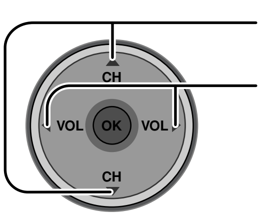
Press to select the sub-menu.

Press to adjust or activate the sub-menu.

Item	Explanations
Color Temp (temperature)	To increase or decrease Warm (red) and Cool (blue) colors to suit personal preferences.
Natural Color	To increase the color reproduction range with natural color gradation and highly delicate hues.
Video NR	Reduces noise in the channel, commonly called snow. Remains off when receiving a strong signal.
3D Y/C Filter	Minimizes noise and cross color in the picture.

■ Color Matrix

Displays 480p input signals in a natural color from digital equipment adapters connected to COMPONENT VIDEO INPUT (Y, P_B, P_R) terminals.
Select HD or SD to automatically adjust color parameters for HD (high definition) or SD (standard definition).



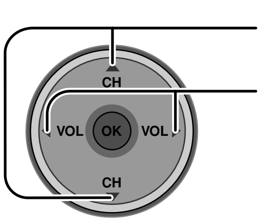
Press to select Color Matrix.

Press to select SD or HD.
- SD : When the input signal is a normal TV system (NTSC).
- HD : When the input signal is a High-Definition system (ATSC).

Notes:
- This feature is available only with 480p signal and not available with regular TV (NTSC) program.
- When viewing a non-standard DTV signal format, you can change color parameters manually for the best picture quality.

■ Freeze

This feature is used to freeze main picture and display it in a PIP or SPLIT frame, when the **FREEZE** button on the remote control is pressed. Press **FREEZE** again to delete frame (see pages 53, 55).



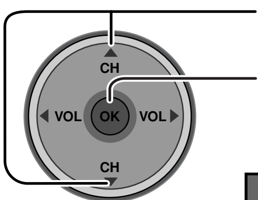
Press to select Freeze.

Press to select Split or PIP.

Audio



Bass / Treble / Balance / Normal



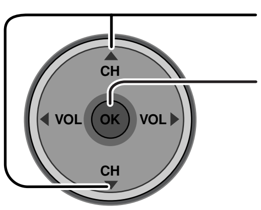
Press to select the sub-menu.

Press to adjust or activate the sub-menu.

Item	Explanations
Bass	Increase or decrease the bass response.
Treble	Increase or decrease the treble response.
Balance	Emphasize the left / right speaker volume.
Normal	Reset Bass, Treble and Balance adjustments to factory default settings.

Other Adjust

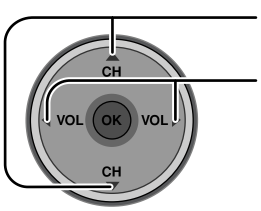
1



Press to select Other Adjust.

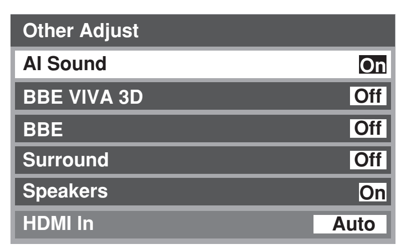
Press to display the sub-menu.

2



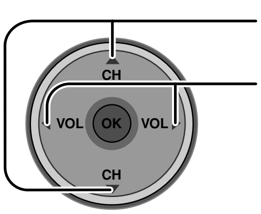
Press to select the sub-menu.

Press to select or activate the sub-menu.



■ AI Sound

Equalize overall volume levels across all channels. AI sound is not available in VIDEO input mode (see page 20).



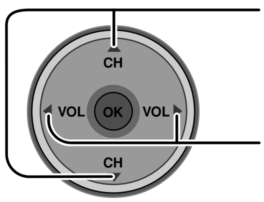
Press to select AI Sound.

Press to select On or Off.

■ BBE VIVA 3D / BBE

BBE VIVA 3D BBE VIVA 3D provides a musically accurate natural 3D image with hi-fi sound. The clarity of the sound is improved by BBE while the width, depth and height of the sound image are expanded by BBE's proprietary 3D sound processing. BBE VIVA 3D is compatible with all TV programs including news, music, dramas, movies and sports as well as electronic games. BBE VIVA 3D enhances the surround sound effect, while maintaining the clarity of dialogue.

BBE Sound technology enhances speech intelligibility and restores the dynamic range of musical passages to provide outstanding natural sound.



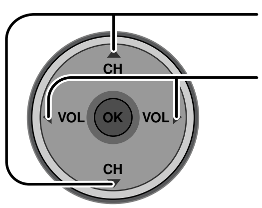
Press to select BBE VIVA 3D or BBE.

Press to select On or Off.

Notes:
- When “BBE VIVA 3D” is set to On, “BBE” and “Surround” setting are fixed to “On”.
- When “BBE VIVA 3D” is set to Off, “BBE” and “Surround” can be set individually.

■ Surround

Enhances audio response when listening to stereo.



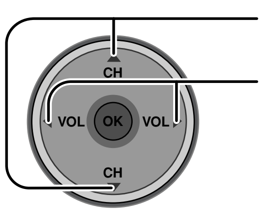
Press to select Surround.

Press to select On or Off.
- On : For a stereo audio.
- Off : For a monaural audio.

Note:
This feature is effective when BBE VIVA 3D is set to Off.

■ Speakers

This feature is used to turn TV speakers On or Off (see page 16, Amplifier Connection).

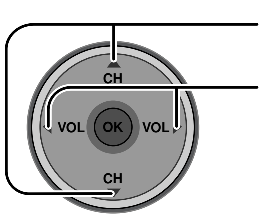


Press to select Speakers.

Press to select On or Off.
- On : TV speakers operate normally.
- Off : TV speakers off.

■ HDMI In

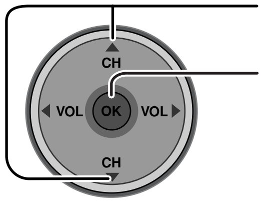
When using HDMI (see page 15), this feature will let you switch between Analog Input and Digital Input.



Press to select HDMI In.

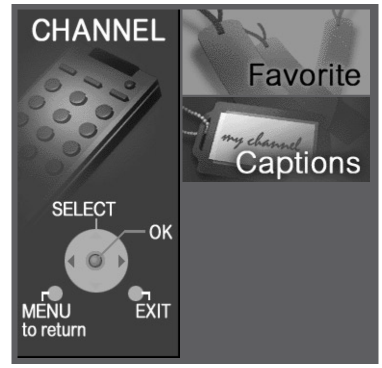
Press to select the mode.
- Auto : Automatically selects Analog / Digital signal.
- Digital : Digital Input only.
- Analog : Analog Input only.

Channel



Press to select the menu.

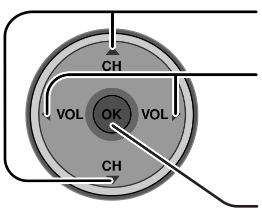
Press to display the sub-menu.



Favorite

Allows you to create Favorite channel list from Antenna (A) or Antenna (B).

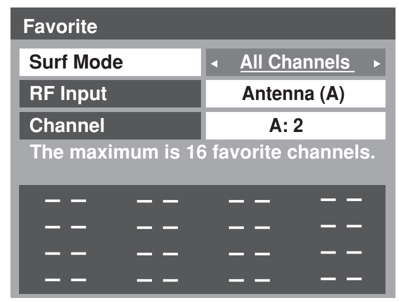
■ Surf Mode



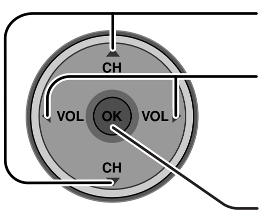
Press to select Surf Mode.

Press to select Favorites or All Channels.

Press to enter your selection.



■ RF Input



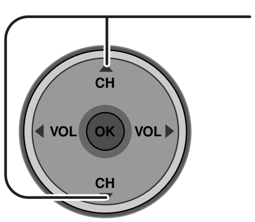
Press to select RF Input.

Press to select Antenna (A) or Antenna (B).

Press to enter your selection.

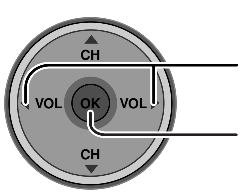
■ Channel

1



Press to select Channel.

2



Press to select the channel.

Press to add the channel.

To delete the channel, press again while the channel number is displayed.

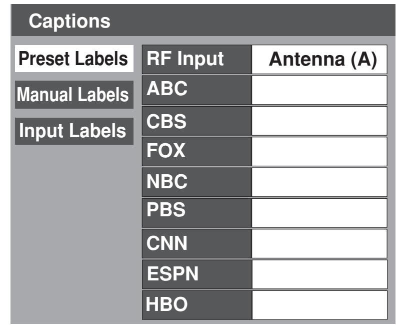
• Repeat step 2 up to 16 favorite channels.

Captions

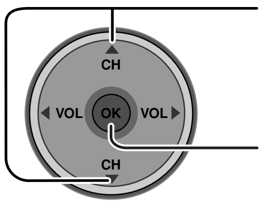
To enter preset and manual labels to desired stations. Also to enter input label to video inputs.

■ Preset Labels

To enter channel numbers for popular TV stations.



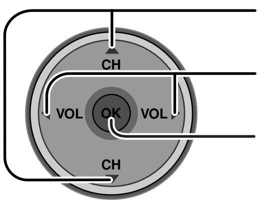
1



Press to select Preset Labels.

Press to enter the sub-menu field.

2

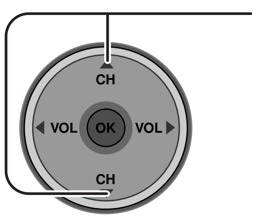


Press to select RF Input.

Press to select Antenna (A) or Antenna (B).

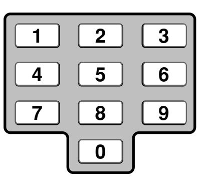
Press to enter your selection.

3



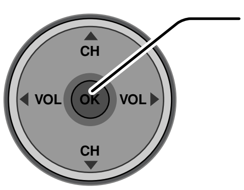
Press to select the desired preset caption.

4



Select the channel (refer to your local TV guide).

5

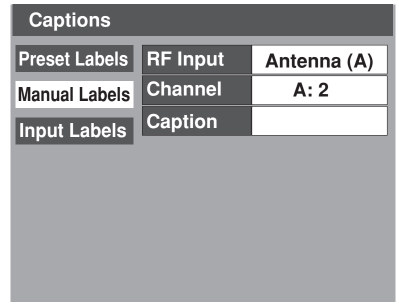


Press to enter your selection.
To delete a channel number, while highlighted press ◀ repeatedly until all numbers are removed, then press **OK** button.

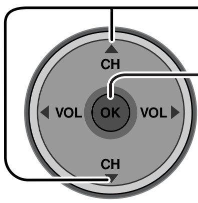
Note:
Only input with signal will be selectable.

Manual Labels

To enter numbers and captions manually.



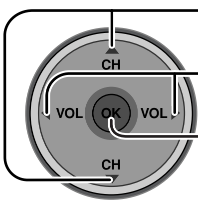
1



Press to select Manual Labels.

Press to enter the sub-menu field.

2

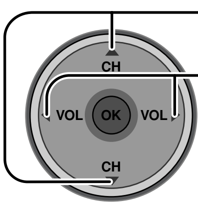


Press to select RF Input.

Press to select Antenna (A) or Antenna (B).

Press to enter your selection.

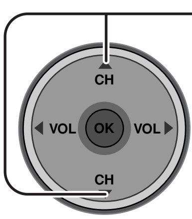
3



Press to select Channel.

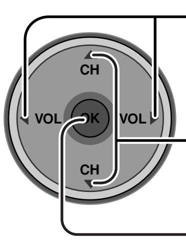
Press to select the available channel number.

4



Press to select Caption.

5



Press to select the character position.

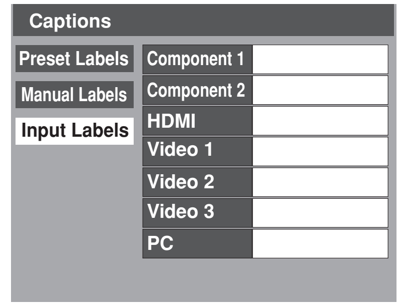
Press to select the character (refer to your local TV guide).
- Repeat until all characters are added, up to 7 characters can be added for each channel.
- To delete the Channel Caption, press until no character is displayed.

Press to enter your selection.

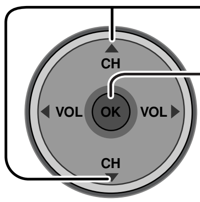
Note: Only input with signal will be selectable.

■ Input Labels

To label video input connections for on-screen display.



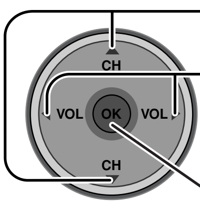
1



Press to select Input Labels.

Press to enter the sub-menu field.

2



Press to select the video input.

Press to select the preset input label.

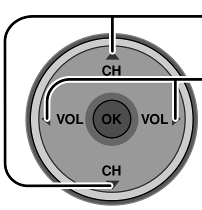
- To delete Input labels, press until no label is displayed, and then press **OK** button to enter your selection.
- To skip the input, select "**SKIP**". The input will be skipped when you press **TV**/**VIDEO**.

Press to enter your selection.

Timer

Set the time in Clock Set (see page 35) before setting Timer.

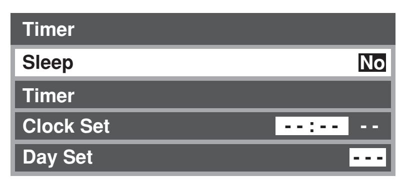
Sleep



Press to select Sleep.

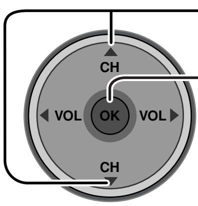
Press to select the desired sleep time (No, 30, 60 or 90).

- To turn off the timer, select No.
- To confirm the remaining time, press RECALL button (see page 21).



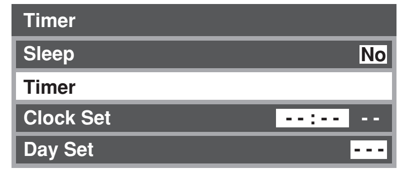
Timer

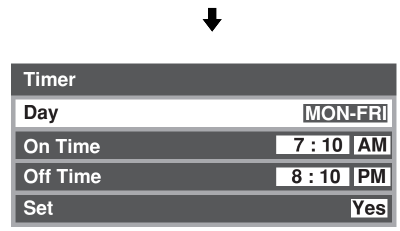
Select timer to turn the TV on and off at selected times and on selected day.



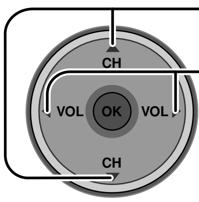
Press to select Timer.

Press to enter the Timer sub-menu.





■ Day

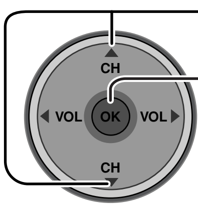


Press to select Day.

Press to select appropriate day setting.

■ On Time/ Off Time

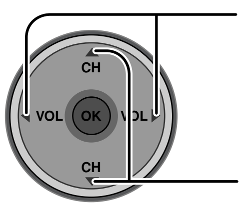
1



Press to select On Time or Off Time.

Press to enter the time field.

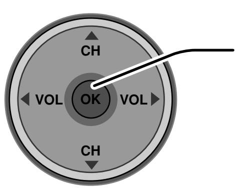
2



Press to select the hour (AM or PM) or the minutes position.

Press to set the hour (AM or PM) and the minutes.

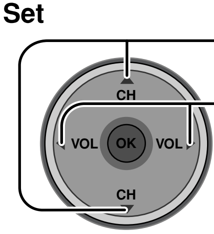
3



Press to enter your selection.

Notes:
- The TV automatically turns Off after 90 minutes when turned On by the Timer. It will be cancelled if the Off Time is selected or if a key is pressed.
- When the power to the TV set is disrupted due to a power outage or similar problem, the off-timer will be deactivated and the TV will be in standby mode even after power is restored.

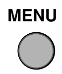
■ Set



Press to select Set.

Press to select Yes or No.

To return to the previous screen



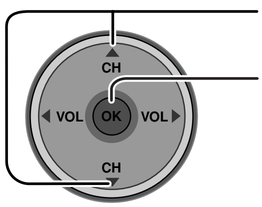
Press to return.

To activate Timer

Select the channel and turn off the TV.

Clock Set

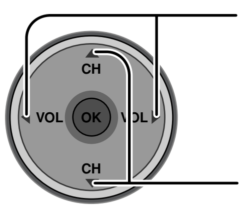
1



Press to select Clock Set.

Press to enter the time field.

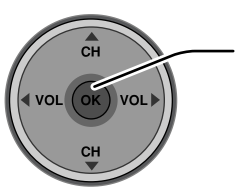
2



Press to select the hour (AM or PM) or the minutes position.

Press to set the hour (AM or PM) and the minutes.

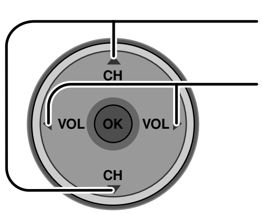
3



Press to enter your selection.

Day Set

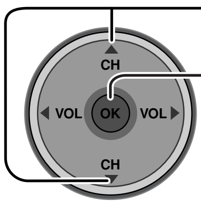
Set the day of the week.



Press to select Day Set.

Press to select the day of the week.

Setup



Press to select the menu.

Press to display the sub-menu.

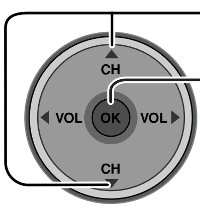


Program CH

■ Input Setup

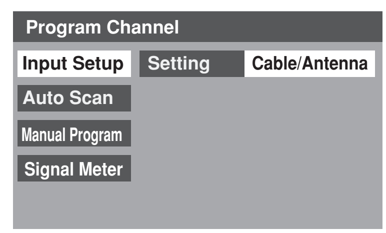
Lets you specify the antenna mode (Cable only, Cable/Antenna or Antenna only).

1

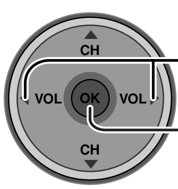


Press to select Input Setup.

Press to enter the sub-menu field.



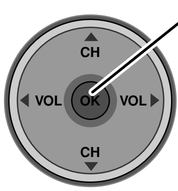
2



Press to select the antenna mode.

Press to enter your selection.
• The confirmation message appears.

3



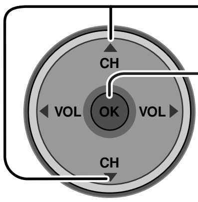
Press to start Auto Scan.

Notes:
• Auto scan is necessary when you select the input signal for the first time or whenever you change the antenna configuration.
• If CableCARD is not inserted, the Auto scan performs Scan All.
• When CableCARD is inserted and Cable only is selected, Auto Scan will be skipped.
• When CableCARD is inserted and Cable/Antenna is selected, Antenna (B) Analog & Digital Auto Scan will be performed.
• In order to manually select Antenna B from the remote, Auto Scan must first be performed.

Auto Scan

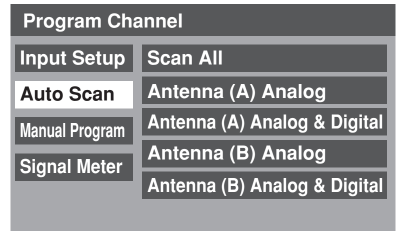
Automatically scans all available channels, Antenna (A) Analog, Antenna (A) Analog & Digital, Antenna (B) Analog and Antenna (B) Analog & Digital.

1

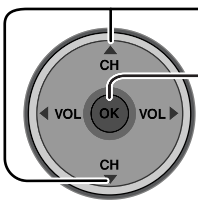


Press to select Auto Scan.

Press to enter the sub-menu field.



2



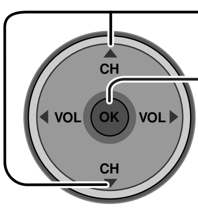
Press to select the sub-menu.

Press to start Auto Scan.
- After Auto Scan is completed, press **MENU** to return to the previous screen.

Manual Program

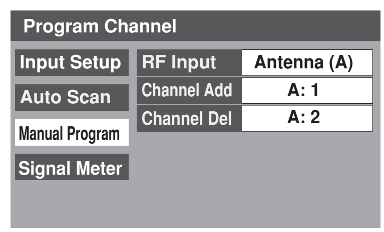
To add or delete channels from either channels list (A/B) manually.

1

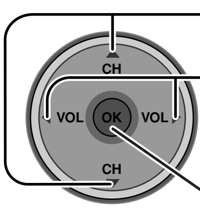


Press to select Manual Program.

Press to enter the sub-menu field.



2

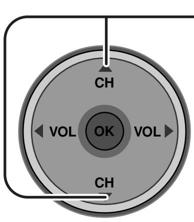


Press to select RF Input.

Press to select Antenna (A) or Antenna (B).

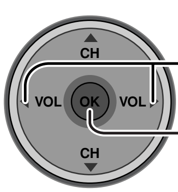
Press to enter your selection.

3



Press to select Channel Add or Channel Del.

4



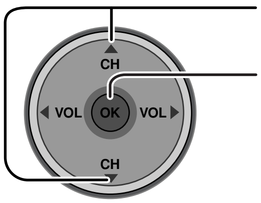
Press to select the channel.

Press to add or delete the channel.

■ Signal Meter

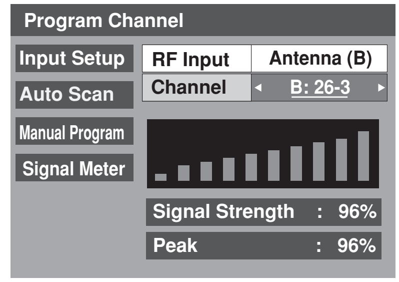
(For digital channels only)
Displays the signal strength of the ATSC digital channel in either Antenna (A) or Antenna (B).

1

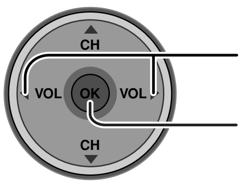


Press to select Signal Meter.

Press to enter the sub-menu field.



2



Press to select the channel.

Press to display the Signal Strength.

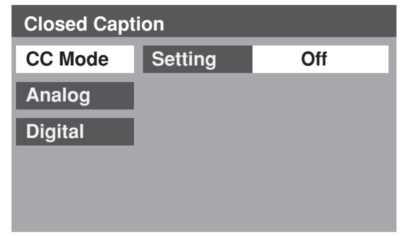
- The color of the signal bar usually indicates the strength of the received signal.
  Green - Adequate signal for a good reception.
  Yellow - Poor signal strength.
  Red - Very poor signal strength.

Closed Caption

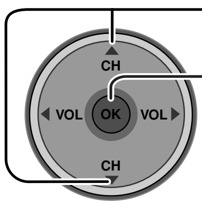
The television includes a built-in decoder that is capable or providing a visual display of the audio portion. The program viewed must provide Closed Captioning (CC) for the television to display it.

■ CC Mode

Activates Closed Captioning when the MUTE button is pressed.



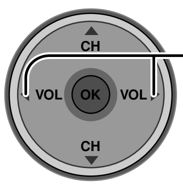
1



Press to select CC Mode.

Press to enter the sub-menu field.

2

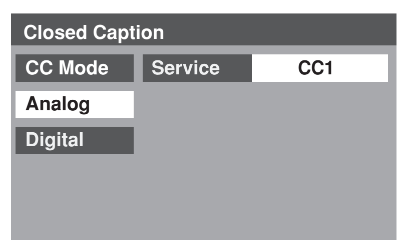


Press to select the setting.
- Off
- On : To display Closed Captions.
- On Mute : To display Closed Captions when audio is muted.

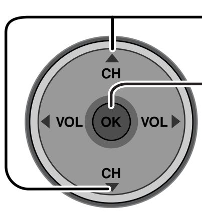
Notes:
- The closed caption is not displayed when you use HDMI connection.
- When displaying or recording an analog channel program on a connected equipment, select the closed caption On/Off setting on the connected equipment. The TV's CC Mode setting does not affect with the analog channel output signal.
- When displaying or recording a digital channel program on a connected equipment, set the TV's CC Mode setting to Off and select the closed caption On/Off setting on the connected equipment. The digital closed captions will overlap if the closed caption setting is On on both the TV and the connected equipment.

■ Analog

Lets you choose the closed caption service of Analog broadcasting.



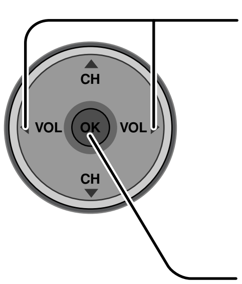
1



Press to select Analog.

Press to enter the sub-menu field.

2



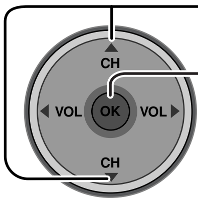
Press to select the setting.
- CC1 : For video related information that can be displayed (up to 4 line of script on the screen, where it does not disturb the relevant parts of the picture). Script can be in any language.
- CC2/CC3/CC4 : Other modes used for video related information.
- T1 : Blanks out a large portion of the picture on the television screen, and displays program guide or any other information currently being transmitted.
- T2/T3/T4 : Other modes that display information and blank out a large portion of the picture of theTV screen.

Press to enter your selection.

■ Digital

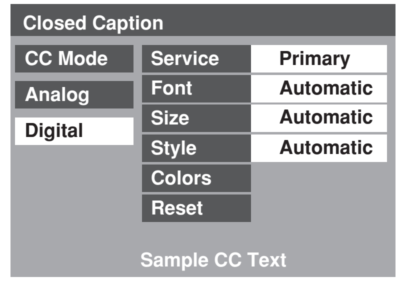
The Digital Closed Caption menu lets you configure the way you choose to view the digital captioning.

1

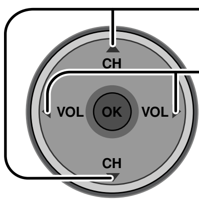


Press to select Digital.

Press to enter the sub-menu field.



2

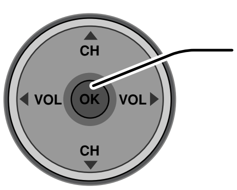


Press to select the sub-menu.

Press to select the setting.

- Service : Primary, Secondary, Service 3, Service 4, Service 5, Service 6
- Font : Automatic, Default, Mono-serif, Pro-serif, Mono, Prop, Casual, Cursive, Small Caps
- Size : Automatic, Normal, Small, Large
- Style : Automatic, None, Raised, Depressed, Uniform, Drop Shadow
- Colors : Foreground .... The opacity of the font (Automatic, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan)
  Fore Opacity ..... The opacity of the text box (Automatic,Transparent, Translucent, Solid, Flashing)
  Background ...... The color of the text box (Automatic, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan)
  Back Opacity .... The opacity of the text box (Automatic, Transparent, Translucent, Solid, Flashing)
  Outline .... The outline of the dropshadow (if selected under style)(Automatic, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan).
- Reset : Reset the Digital CC settings.

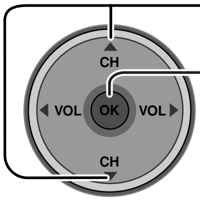
3



Press to enter your selection.

Other Adjust

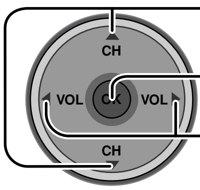
1



Press to select Other Adj.

Press to display the sub-menu.

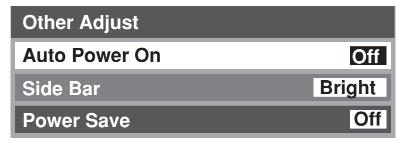
2



Press to select the sub-menu.

Press to enter the next field.

Press to select or activate the sub-menu.



■ Auto Power On (Set or Off)

Select Set to power up the TV at the same time as the cable box or other connected components.

■ Side Bar (Off, Dark, Mid, Bright)

Displaying a picture in 4:3 mode for an extended period may cause an after-image. Change the brightness of the side bars to prevent the after-image.

Notes:
- Setting the side bar to Bright for an extended period may cause an after-image.
- The side bar may flash (alternate black/white) depending on the picture. In such a case, set Pic Mode to Cinema (see page 26).

■ Power Save (Off or On)

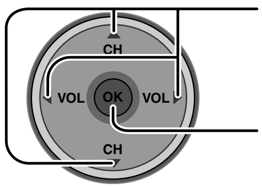
Supress the luminous level of the TV to reduce power consumption.

Cable CARD

This menu provides information when a CableCARD is inserted into the CABLE CARD slot (see page 14).

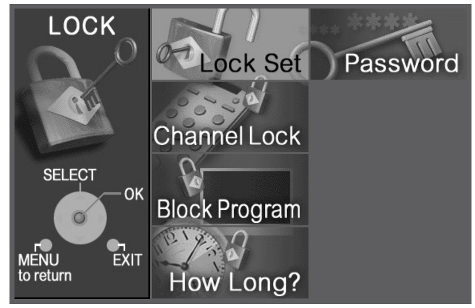
Notes:
- If CableCARD is not inserted and you access the CableCARD Info, the message “Cable Module Not present” appears.
- To receive the features offered by your cable company, you may have to subscribe to those services. Contact your cable company regarding availability of the CableCARD. The CableCARD is required receive premium digital services (where available) through the cable input. You may also be able to order call-ahead pay per view events.

Lock



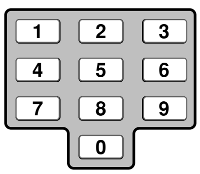
Press to select the menu.

Press to display the sub-menu.

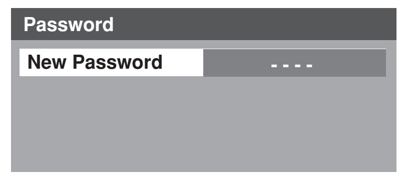


Password

Create a 4-digit password to enter the Lock menu.



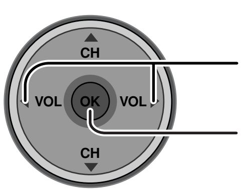
Enter a 4-digit password.



Notes:
- Use a code that is easy to remember and record it in a safe place.
- If Always is secreted in How Long? (see page 45) and you forget your secret code, the TV must be serviced by a qualified technician to clear the Lock setup.

Lock Set

Select Lock Set to prevent viewing video games, VCR tapes, channels and Video modes.



Press to select the setting.

Press to enter your selection.

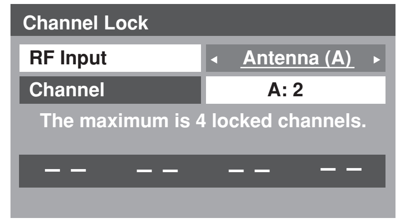


- Off : Turns off Lock set functions.
- Lock All : All channels are locked regardless of the rating level.
- Game Lock : Locks out CH 3, 4 and Video inputs.
- Channel Lock : Locks out specific analog and digital channels. Password is required to view any of the locked channels.

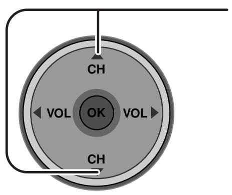
Channel Lock

■ RF Input

Select either Antenna (A) or Antenna (B).

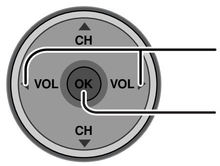


1



Press to select RF Input .

2



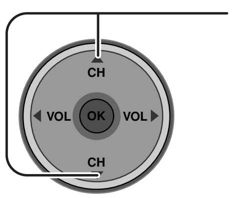
Press to select the setting.

Press to enter your selection.

■ Channel

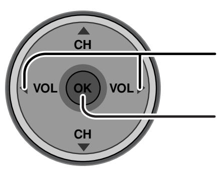
Select up to four (4) channels to be blocked out. These channels will be blocked out regardless of the program rating.

1



Press to select Channel.

2

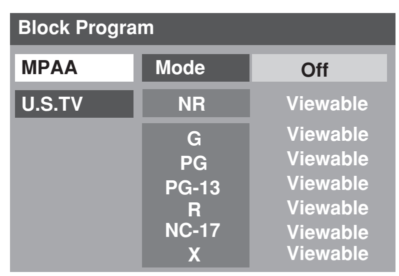


Press to select the setting.

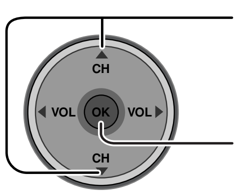
Press to enter your selection.
• To clear the channel number from the list, select the channel number and press **OK**.

Block Program

This television incorporates V-CHIP technology to block the viewing of movies and television programs according to the rating category. There are two (2) Content Advisory Categories: MPAA (Motion Picture Association of America) and TV Parental Guidelines Ratings. These categories are used as guidelines for blocking the programs.
● The default mode for the Lock category is the Unlocked state.



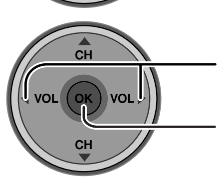
1



Press to select MPAA or U.S.TV.
MPAA : for U.S movie ratings
U.S. TV : for U.S TV program ratings

Press to enter the Mode field.

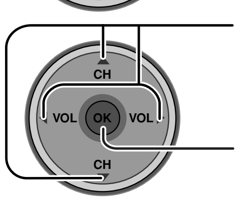
2



Press to select On or Off.

Press to enter your selection.

3



Press to highlight the desired rating level.

Press to change the rating limit to “Blocked” or “Viewable”.

Notes:
• The NR rating is independent of other ratings.
• Placing a block on a specific age based rating level, the NR rating and any other more restrictive ratings will also be blocked.

U.S. TV PROGRAMS RATINGS CHART

NR	Not Rated. See CUSTOMER CAUTION below.
TV-Y	All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
TV-Y7	Directed to older children. Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of 7.
TV-G	General audience. It contains little or no violence, no strong language, and little or no sexual dialogue or situations.
TV-PG	Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
TV-14	Parents strongly cautioned. This program may contain sophisticated themes, sexual content, strong language and more intense violence.
TV-MA	Mature audiences only. This program may contain mature themes, profane language, graphic violence, and explicit sexual content.
FV	FANTASY/CARTOON VIOLENCE
V	VIOLENCE
S	SEX
L	OFFENSIVE LANGUAGE
D	DIALOGUE WITH SEXUAL CONTENT

U.S. MOVIES RATINGS CHART

NR	CONTAINS NO RATING (NOT RATED) AND NA (NOT APPLICABLE) PROGRAMS. Movie has not been rated or rating does not apply.
G	GENERAL AUDIENCES. All ages admitted.
PG	PARENTAL GUIDANCE SUGGESTED. Some material may not be suitable for children.
PG-13	PARENTS STRONGLY CAUTIONED. Some material may be inappropriate for children under 13.
R	RESTRICTED. Under 17 requires accompanying parent or adult guardian.
NC-17	NO ONE 17 AND UNDER ADMITTED.
X	ADULTS ONLY.

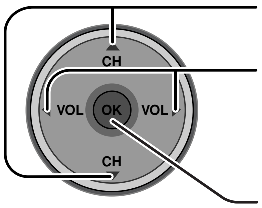
Customer Caution

The V-Chip system that is used in this set is capable of blocking “NR” programs (non rated, not applicable and none) per FCC Rules Section15.120(e)(2). If the option of blocking “NR” programs is chosen “unexpected and possibly confusing results may occur, and you may not receive emergency bulletins or any of the following types of programming:”

- Emergency Bulletins (Such as EAS messages, weather warnings and others)
- Locally originated programming • News • Political • Public Service Announcements • Religious • Sports
- Weather

How Long?

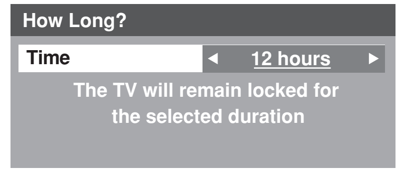
The Lock settings remain for the selected duration.



Press to select How Long?

Press to select 12 hours, 24 hours, 48 hours or Always.

Press to enter your selection.



Note:
When you select Always and you forget your secret code, the TV must be serviced by a qualified technician to clear the Lock setup.

Blocking Messages

Various Blocking messages are displayed on-screen depending upon the type of blocking you have selected in the Lock menu.

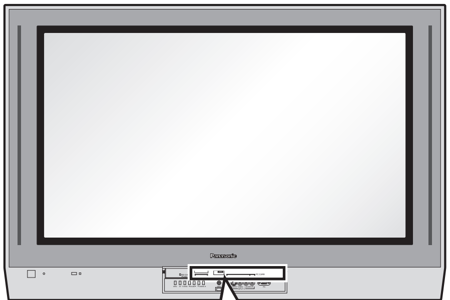
Note:
Entering the password will override the block condition. However, the ratings selection will be retained.

Message	Possible cause
Video Inputs Locked.	Game Lock is selected.
Channel Locked. Press OK to enter password.	Channel Lock is selected.
Rating Limit Exceeded. Press OK to enter password.	The rating level is exceeded.

Photo Viewer

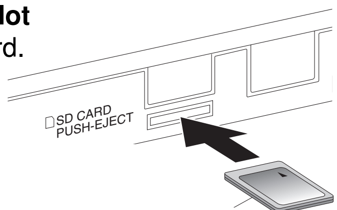
Photo Viewer lets you display JPEG images recorded by digital camera on SD card or other types of memory card when it is inserted in the proper card slot.

Inserting and removing a card



■ **SD card slot**

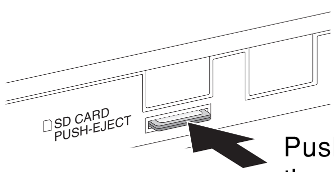
Insert the card.



Label-side upward

Insert it to be clicked in.

Remove the card.

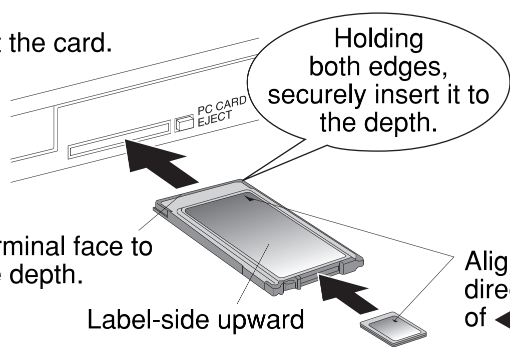


Push the center of the card.

■ **PCMCIA card slot**

Turn the TV off before inserting or removing a PCMCIA card.

Insert the card.

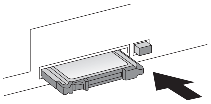


Terminal face to the depth.

Label-side upward

Align the direction of ◀ mark.

Remove the card.



Push the eject button.

If the eject button does not pop out

Push in PCMCIA card again, and then push again the eject button.

Note:

If PCMCIA card adapter is used, remove it together with the adapter.

Compatible card type and card size

SD card slot

- SD Card (512MB)
- Multi Media Card (128MB)
- miniSD Card* (128MB)

PCMCIA card slot

- SD Card (512MB)
- miniSD Card* (128MB)
- Multi Media Card (128MB)
- Compact Flash (1GB)
- Smart Media (128MB)
- Memory Stick (128MB)
- xD Picture Card(128MB)
- Flash ATA (128 MB)
- Memory Stick Pro (1GB)

The cards require standard PCMCIA card adapter. (Some PC card adapter will not be compatible.)

* miniSD Card requires miniSD adapter.

- Photo Viewer is not compatible with card type hard disk (Micro Drive, Mobile type hard disk, etc).
- Memory cards are not supplied with this television.
- When both SD card and PCMCIA card are inserted in the slot, SD card has the priority.

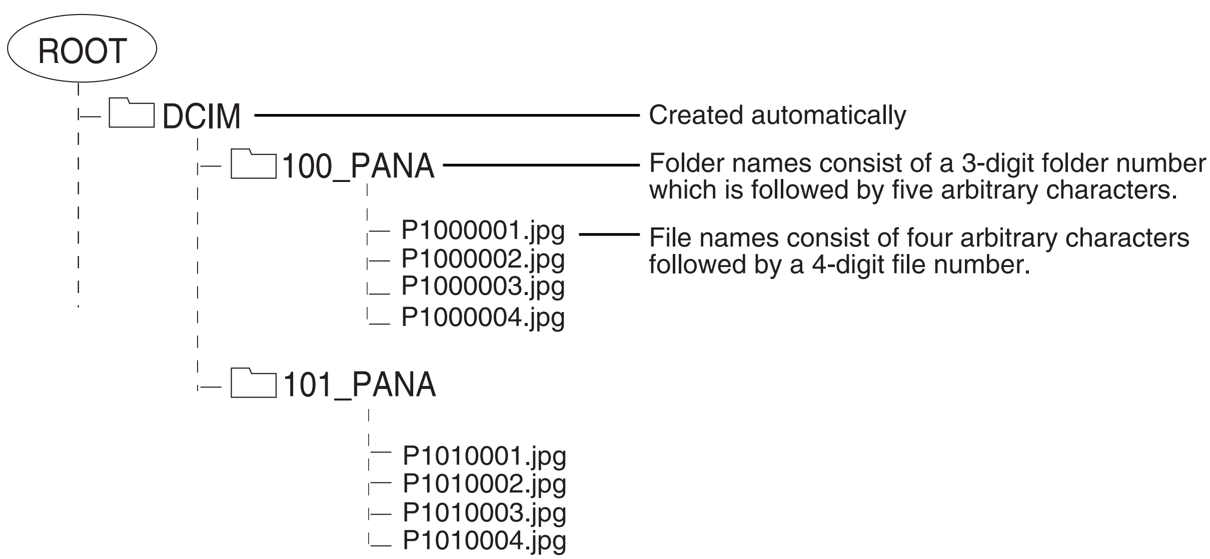
■ **Card Data Protection**

- Do not remove the card while Photo Viewer is accessing the information (when the card icon is flashing). Such action may damage the memory card or the unit itself.
- Before inserting or removing the PCMCIA card, make sure that the TV is turned Off. Otherwise, it may damage the unit.
- Do not touch the terminals on the back of the SD card/ PCMCIA card.
- Always insert a card in the correct direction. Failure to do so may result in damage to the card and this unit.
- Do not subject the card to excessive pressure or strong impacts.
- Electrical interference, electrostatic discharges and malfunctions of the unit or card may all result in data loss or damage to the card.
- Stored data should be periodically backed up as a protection against data corruption, data loss or device malfunction. Please note that our company shall not accept any liability for damage or loss of stored data.
- **WARNING: As with an small object, SD card can be swallowed by young children. Do not allow children to handle SD card. Please remove SD card immediately after use.**

Folders and Files

- Photo Viewer can only show still images recorded by a digital still camera with DCF* and EXIF standard JPEG file.
  *DCF (Design rule for Camera File system)
  Unified standard established by Japan Electronics and Information Technology Industries Association (JEITA).
- Memory cards must be formatted with FAT12 or FAT16 in order to be viewed on TV. If the card is not formatted, it may cause incompatibility with certain memory card adapters. If this happens, reformat the card using your digital camera. **Reformatting the card will erase the images stored in it.** Refer to your camera manual for more information.
- Maximum number of folders that can be displayed: **100**.
- Maximum number of files that can be displayed: **3000**.
- **Picture resolution:** Compatible in the range 64 x 64 - 8192 x 8192 (sub-sampling 4:2:2 or 4:2:0)
- If the image is imported from a PC, it must follow the EXIF (Exchangeable image file format) 2.0, 2.1, 2.2 in addition to the DCF (design rule for Camera File system) format.
- The JPEG modified using a PC will not be displayed on TV.
- The Photo Viewer cannot display Motion JPEG and still image not DCF formatted (i.e. TIFF, BMP).
- If the file is partially corrupted, it may be shown in lower resolution.
- The displayed image size depends on the recorded size.

Example folder structure
JPEG images in all the folders are displayed sequentially.



Notes:
- Folder and file names may vary according to the digital still camera.
- Use the characters “a-z”, “A-Z”, “0-9” and “_” to name a directory or a file. Do not use two-byte characters or other special codes.

Thumbnail Mode

The thumbnail screen is the initial entry screen from the main menu.

• When both SD card and PCMCIA card are inserted, the TV plays SD card. To play a PCMCIA card, select “PC” in “Card” (see page 50) after inserting the PCMCIA card.

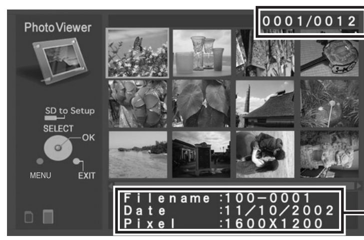


1 Insert the card into the appropriate slot (see page 46).

OR



Press to display the thumbnail screen.



Picture No. /Total No. of pictures

File name, the date and the pixel (resolution) of the picture

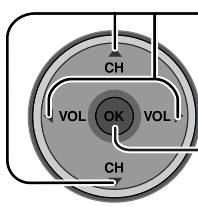
Notes:

• You can also enter the thumbnail screen from MENU screen (see page 24).

• It may take long time to display the thumbnail if there are lots of files or the file size is large.

• The video disappears from the screen while the Photo Viewer access the information from the card. After accessing the images from the card, a thumbnail screen is displayed.

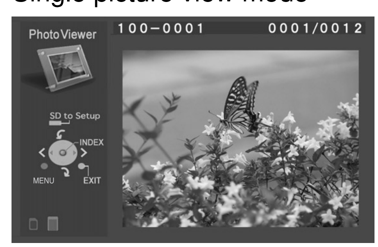
2



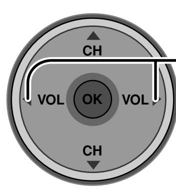
Select the thumbnail image.

Press to display the image in the single picture view mode.

Single picture view mode



3



Press to select the next or the previous picture.

• Press **OK** to return to the thumbnail screen.

To rotate the picture

While in the single picture view mode

Press to rotate the picture ninety degree.

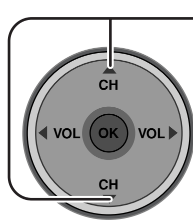


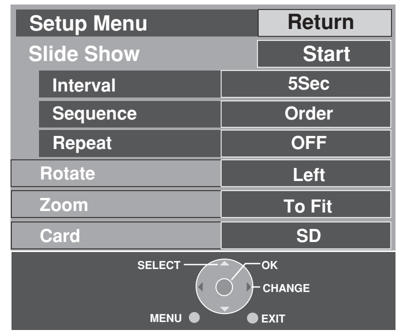
Photo Viewer Setup Menu

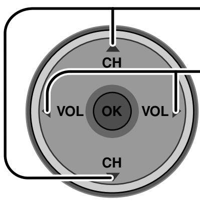
This menu allows you to customize features in the Photo Viewer Setup Menu.

While in the thumbnail mode or the single picture view mode (see page 48)

1 

Press to display the Setup Menu screen.



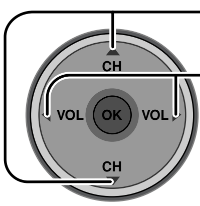
2 

Press to select the sub-menu.

Press to adjust or activate the sub-menu.

Slide Show

Select the settings of Interval, Sequence and Repeat before starting the slide show.

1 

Press to select the sub-menu.

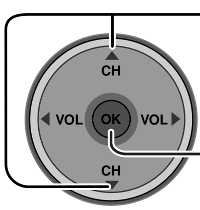
Press to adjust or activate the sub-menu.

■ **Interval**

Allows you to change the length of time that a slide is being displayed on screen. (5Sec, 10Sec, 15Sec, 30Sec, 60Sec, 90Sec, 10Min).

■ **Sequence (Order or Random)**

■ **Repeat (OFF or ON)**

2 

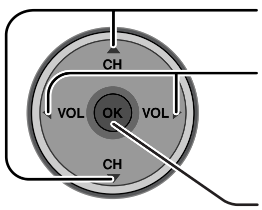
Press to select Start.

Press to start the slide show.

- Press again to stop.
- Press **ASPECT** to change the aspect of the image (see page 56).

Rotate

Allows you to rotate the image (see also page 48).



Press to select Rotate.

Press to select Left or Right.

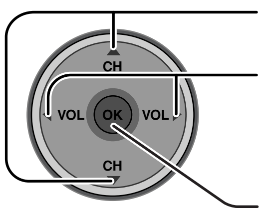
Press to activate the setting.

Zoom

(While in the single picture view mode only)

Lets you select the magnification of the single picture display.

1

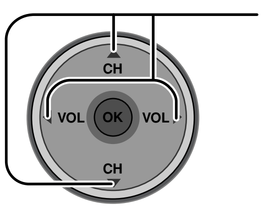


Press to select Zoom.

Press to select To Fit, x2 or x4.

Press to activate the setting.

2

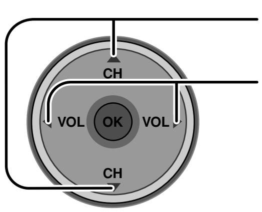


Press to move the image in the picture frame.

To cancel Zoom
Press **OK** to view the picture in normal magnification.

Card

Select either SD or PC when both cards are inserted in the slots.



Press to select Card.

Press to select SD or PC.

Photo Viewer Troubleshooting

Symptom	Cause and remedy	Page
Cannot read the content of the card.	• Not compatible format. Must be formatted with FAT 12 or FAT 16. • The extension is not “JPG”. • The folders not under DCF standard.	**47** **47** **47**
PC card cannot be ejected.	Push the card all the way in, and eject.	**46**
Poor picture quality.	If the main image cannot be read (the file is partially corrupted), the Photo Viewer will read the thumbnail. Please confirm the format of the image.	**47**
Long time to display.	There are lots of images or the file size is large.	**47**
The screen turns black.	If the TV is left with no operation for longer than 5 minutes during the thumbnail screen or the single picture view mode, the screen turns black to avoid image retention. Press any key to return to the normal display.	–

■ **Error messages**

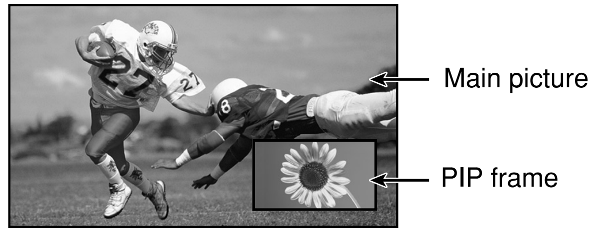
“Card is not inserted correctly.”	Insert a card.
“This type of image is not supported.”	The JPEG file is corrupted and cannot be decoded.
“This type of format is not supported.”	The card is not formatted with FAT 12 or FAT 16 or if it is not DCF standard.
“  ”	Thumbnail and main picture cannot be shown.
“Photo Viewer cannot support over 3000 JPEG files.”	Over 3000 image files.
“Photo Viewer cannot support over 8192 x 8192 pixels.”	Resolution over.
“This type of card is not supported.”	Incompatible card is inserted.
“Press any key to return.”	The screen turned black to avoid image retention. Press any key to return to the normal display.

PIP (Picture in Picture) Operation

This television includes a two-tuner Picture In Picture (PIP) feature. This allows you to watch two (2) live broadcasts at the same time with or without an external video source such as a VCR, cable box, etc.



1 PIP — Press to display the PIP frame.

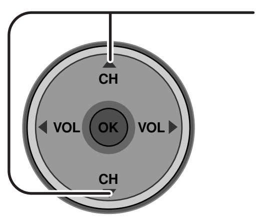


Notes:
- Audio is from Main picture only.
- PIP frame displays analog channel signal of ANTENNA (A) only, and cannot display ANTENNA (B) or digital channel signal.

2 **In the PIP frame**

PIP CH DVD/VCR CH ▼ ▲ — Select the channel.

In the Main picture



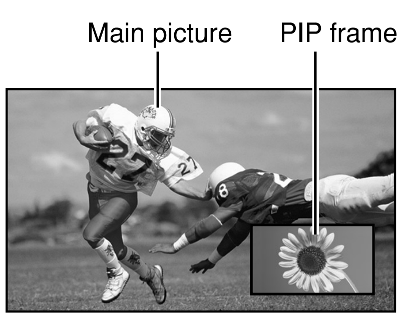
Press to select the channel.
- You can also use the numbered buttons.

To cancel the PIP operation

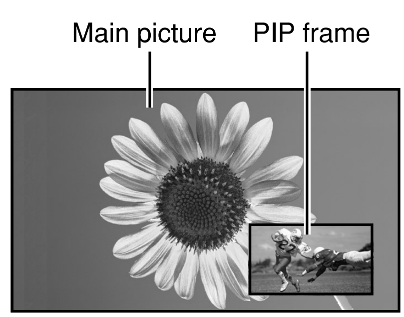
PIP

To swap the pictures

SWAP



↔



To change the size of PIP frame

PIP MIN REW ◄◄ : smaller PIP MAX FF ►► : larger

To freeze the picture

PIP frame

FREEZE TV/VCR

• Press again to cancel Freeze.

Main Picture

While PIP frame is not displayed

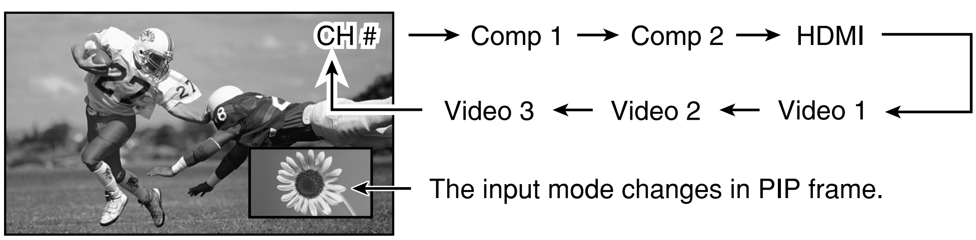
FREEZE TV/VCR

• Select PIP or Split (see page 27, Freeze) when freezing the Main picture.

Notes:
• Freeze is canceled after 3 minutes.
• Only MOVE (see below) is active while the Main picture is frozen.

To select the input mode of PIP frame

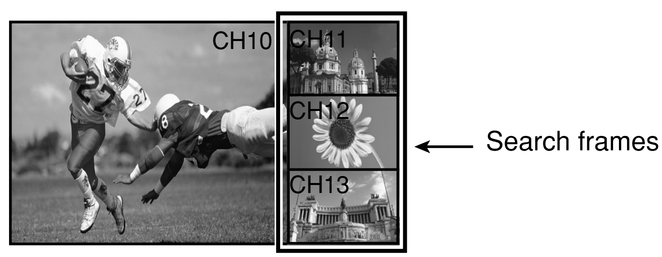
TV/VIDEO



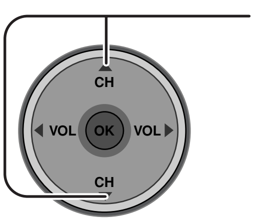
To search the channel

(For analog channels only)

1 SEARCH OPEN/CLOSE Press to display search frames.
• Press again to cancel Search.



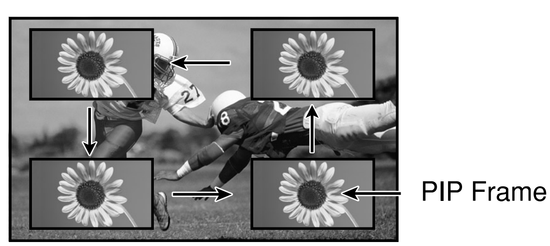
2 Press to select the channel.
• You can also use the numbered buttons.



To move PIP frame

MOVE

Press to position PIP frame to one of the four corners.

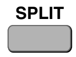


SPLIT Operation

This feature lets you watch two different channels side by side with or without an external video source.



1



Press to display the SPLIT frame.

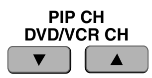
Main picture



SPLIT frame
(The previously selected screen appears.)

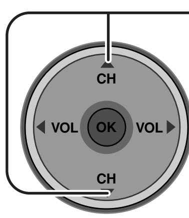
Notes:
- Audio is from Main picture only.
- SPLIT frame displays analog channel signal of ANTENNA (A) only, and cannot display ANTENNA (B) or digital channel signal.

2 In the SPLIT frame



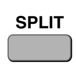
Select the channel.

In the Main picture

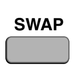


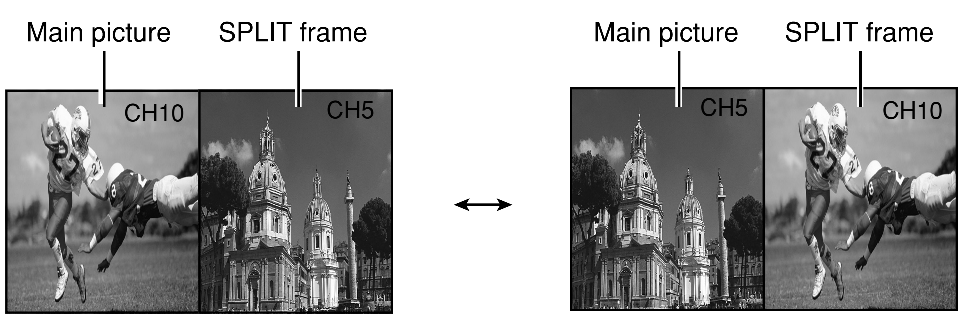
Press to select the channel.
- You can also use the numbered buttons.

To cancel the SPLIT operation.



To swap the pictures





To freeze the picture

SPLIT frame

FREEZE
TV/VCR

• Press again to cancel Freeze.

Main Picture

While SPLIT frame is not displayed

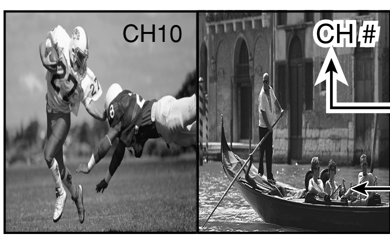
FREEZE
TV/VCR

• Select PIP or Split (see page 27, Freeze) when freezing the Main picture.

Note:
• Freeze is canceled after 3 minutes.

To select the input mode of SPLIT frame

TV/VIDEO

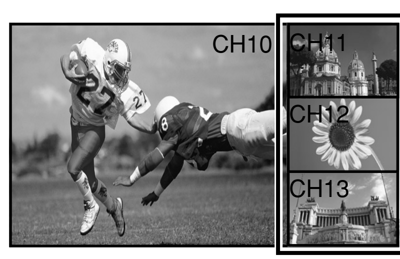


→ Comp 1 → Comp 2 → HDMI → Video 1 → Video 2 → Video 3

The input mode changes in SPLIT frame.

To search the channel

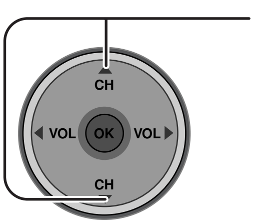
(For analog channels only)



Search frames

1 SEARCH OPEN/CLOSE — Press to display search frames.
• Press again to cancel Search.

2



Press to select the channel.
• You can also use the numbered buttons.

Notes:
• The Main picture and the SPLIT frame are processed in the individual circuits, and may have slight difference in image quality.
• You cannot display the same picture in the Main picture and the SPLIT frame at the same time.
• While Main picture freeze frame is displayed, you cannot select or search the channel, swap the pictures, or select the input mode.

Aspect Controls

Lets you choose the aspect depending on the format of the received signal and your preference.

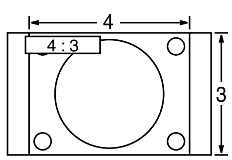
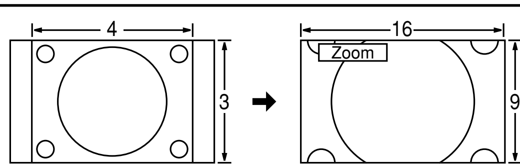
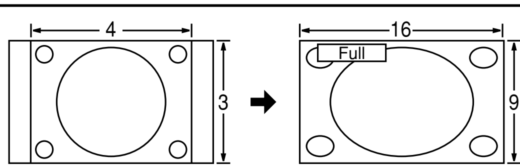
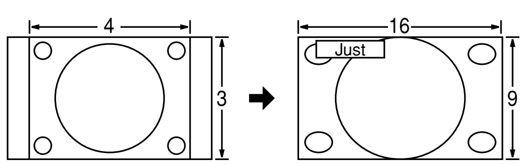




Press to change the aspect mode.

Note: The available aspect modes depend on the receiving signal.

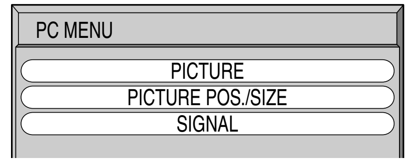
- 480i : 4:3, Full, Just or Zoom
- 480p (4:3) : 4:3, Full or Zoom
- 480p (16:9) : 4:3, Full or Zoom
- 1080i : 16:9 only
- PC mode : NORMAL, FULL, JUST or ZOOM
  (In PC mode, "4:3" indication is displayed as "NORMAL".)

Mode	Picture	Explanation
4 : 3 (**NORMAL** in PC mode)		Displays a 4:3 picture at its standard 4:3 size with gray side bars. (It may create an after-image on screen if displayed for a prolonged period of time.)
Zoom		Expands a 4:3 picture uniformly (width and height) to full screen width and then reposition the picture vertically. (Recommended for letterbox. This will show picture at full screen size.)
Full		Displays a picture at full screen size. (Recommended for anamorphic pictures.)
Just		Stretches the right and left edges of a 4:3 picture to fill the screen, and the center of the screen have aspect correction applied. The size of the picture depends on the original signal. (Recommended for regular TV viewing.)

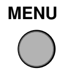
Note:
In PC mode, aspect mode information is displayed in the top right of the screen.

PC MENU

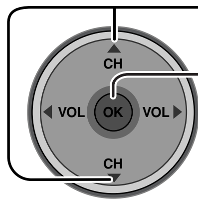
Preparation:
- Connect a PC to the TV (see page 18).
- Select PC input mode (see page 20).





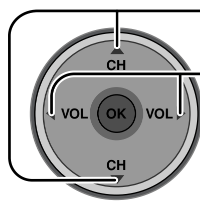
1 

Press to display the PC MENU.

2 

Press to select the sub-menu.

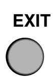
Press to display the sub-menu screen.

3 

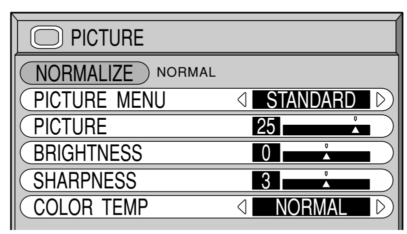
Press to select the sub sub-menu.

Press to adjust the sub sub-menu.

To return to the previous screen



PICTURE



■ NORMALIZE

Select “NORMALIZE” to reset adjustments to the factory default setting.

Note:
- You can select “NORMALIZE” when you changed the settings.

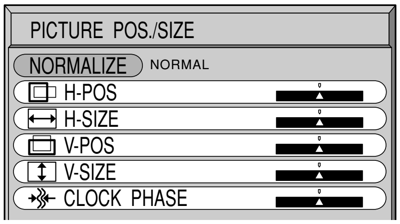
■ PICTURE MENU

MENU	Function
AUTO	Automatically selects the mode that best suits the brightness of the environment.
STANDARD	For viewing in standard (evening lighting) environments.
DYNAMIC	For viewing in brighter environments.
CINEMA	Ideal for movies.

■ PICTURE, BRIGHTNESS, SHARPNESS, COLOR TEMP

Item	Function
PICTURE	Adjusts white areas of picture.
BRIGHTNESS	Adjusts dark areas of picture.
SHARPNESS	Adjusts clarity of outline detail.
COLOR TEMP	To increase or decrease WARM (red) and COOL (blue) colors to suit personal preferences.

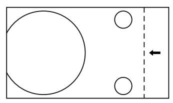
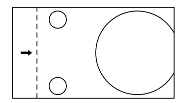
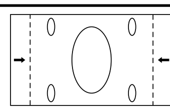
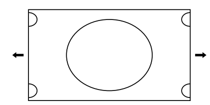
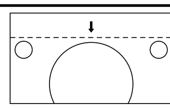
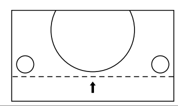
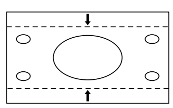
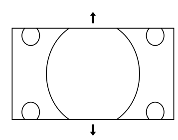
PICTURE POS./SIZE



Note:
If a “Cue” or “Rew” signal from a VCR or may DVD player is received, the picture position may shift up or down despite of the PICTURE POS./SIZE settings.

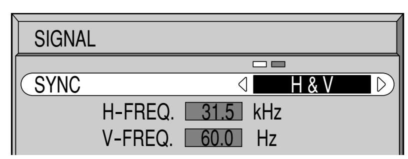
■ NORMALIZE

Select “NORMALIZE” to reset adjustments to the factory default setting.
Note:
• You can select “NORMALIZE” when you change the settings.

Menu	When “◄” button is pressed	When “►” button is pressed
H-POS		
H-SIZE		
V-POS		
V-SIZE		
CLOCK PHASE (RGB/PC in Mode)	Flickering and distortion can be eliminated by using the Position Left “ ◄ ” or Right “ ► ” button to carry out adjustment.	

SIGNAL

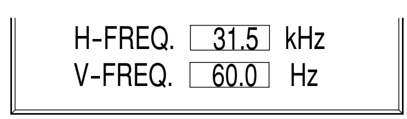
■ SYNC
(Only for RGB INPUT signal)



- H & V: The H and V sync signals are input from the HD/VD connector.
- ON G: Uses a synchronized signal on the Video G signal, which is input from the G connector.

■ H-FREQ. (kHz)/V-FREQ. (Hz)
(Only for RGB input signal)

Displays the H (Horizontal)/V (Vertical) frequencies.



Display range:
Horizontal 15 - 110 kHz
Vertical 48 - 120 Hz

Operating peripheral equipment using the remote control

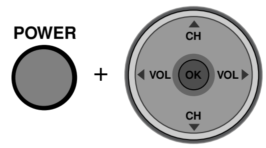
Programming the remote control code

You can operate other manufacturers' components using this TV's remote control.

Preparation:
- Connect the plug of the external component to the wall outlet.
- Make sure the component is turned off.



1



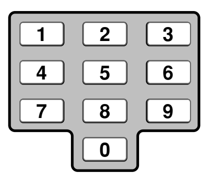
Press and hold **POWER** and **OK** together, **for at least 5 seconds**.
- The mode selection buttons flashes, and then release the **POWER** and **OK**.

2



Select the type of the component.
- The selected button light and all others go out.

3

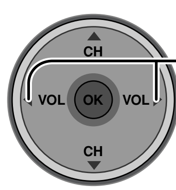


Enter the 3-digit infrared code (see pages 60-62).
- Factory default setting : Panasonic
- Press **POWER** to test the operation.

Notes:
- If the component does not operate with the Remote Control, repeat the procedure using another code. (Some brands have multiple codes).
- If an incorrect code is entered, or if the procedure takes longer than 30 seconds,the programming will fail.

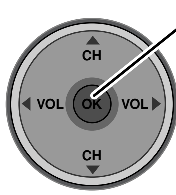
To find the code not listed in the index

1 After selecting the type of component (step 2, above)



Press to select the code.
- The code starts from the current device.
- Press **POWER** button to test the operation.
- Repeat the steps until the component code is found. It may take many attempts before the correct code is found.

2



Press to store the code.

Infrared Code Index

The remote control is capable of operating many brands of peripheral equipment. Refer to page 59 for programming procedures.

Notes:
- The remote control memory is limited and therefore some models may not operate. The remote control is not designed to control all features available in all models.
- After entering the proper infrared code, press the desired Mode Selection buttons (see page 20). Refer to pages 63 and 64 for details on operating peripheral equipment using the remote control.

Infrared Remote Codes for Specific Components					
Helpful Hint: Write down the code numbers for your components in the space provided below. This will serve as a handy reference whenever you need to reprogram your remote control.					
CABLE Cable Box		**VCR** Video Cassette Recorder		**CD** Compact Disc Player	
DBS Digital Broadcast System		**RCVR** Receiver or Amplifier		**LD** Laser Disc Player	
Other Component		Other Component		Other Component	
Other Component		Other Component		Other Component	

VCR

AUX

Codes for VCR

Brand	Code
Admiral	335
Aiwa	332
Akai	314, 315, 316, 329
Audio Dynamic	311, 339
Bell &Howell	305, 313
Broksonic	320, 326
Canon	323, 325
CCE	343
Citizen	306
Craig	305, 306, 329
Curtis Mathes	324, 345
Daewoo	301, 324, 343
DBX	310, 311, 339
Dimensia	345
Emerson	303, 319, 320, 325, 326, 343
Fisher	305, 307, 308, 309, 313
Funai	320, 326, 334
GE	324, 333, 345
Goldstar	306
Gradiente	334
Hitachi	300, 323, 345
Instant Replay	323, 324
Jensen	339
JVC	310, 311, 334, 339
Kenwood	306, 310, 311, 339
LXI	300, 305, 306, 307, 308, 309
Magnavox	323, 324, 331
Marantz	310, 311, 339
Marta	306
Memorex	309, 324
MGA	338, 340, 341, 347, 348
Minolta	300, 345
Mitsubishi	338, 340, 341, 347, 348
Multitech	304, 347
NEC	310, 311, 334, 339
Olympic	323, 324
Optimus	306, 321, 328, 335
Orion	320, 326
Panasonic	321, 322, 323, 324
Penney	300, 305, 310, 311, 324, 339, 345
Pentax	300, 311, 345
Philco	320, 323, 324, 326, 331, 343
Philips	323, 324, 331
Pioneer	323
Proscan	300, 301, 302, 323, 324, 331, 333, 345, 346
Quasar	321, 322, 323, 324
Radio Shack	305, 309, 324, 333, 336, 340
RCA	300, 301, 302, 323, 324, 331, 333, 345, 346
Realistic	305, 309, 324, 336, 340
Samsung	302, 304, 333
Sansui	320, 326, 339, 352
Sanyo	305, 309, 313
Scott	301, 302, 304, 309, 320, 326, 338, 340, 347, 348
Sears	300, 305, 306, 307, 308
Sharp	335, 336
Shintom	317
Signature 2000	335
Singer	317
Sony	328, 329, 330
Sylvania	323, 324, 331
Tashiro	306
Tatung	310, 311, 339
Teac	310, 311, 339
Technics	321, 322, 323, 324
Teknika	324
Toshiba	301, 346
Vector Research	311
Wards	306, 309, 335, 336, 344
Yamaha	305, 310, 311, 339
Zenith	306, 344

DVD

Codes for DVD

Brand	Code
Denon	100
Ferguson	101
JVC	109
Mitsubishi	105
Nordmende	101
Panasonic	100
Philips	103
Pioneer	102
RCA	101

Brand	Code
Saba	101
Samsung	110
Sharp	108
Sony	104
Technics	100
Thomson	101
Toshiba	103
Yamaha	100
Zenith	107

DVD

Codes for CD

Brand	Code
Admiral	226
Aiwa	233, 235
Carver	229
Denon	242
Emerson	239
Fisher	205
Harman Kardon	219, 220, 221, 223
Hitachi	207
Jensen	234
JVC	240, 241, 245
Kardon	223
Kenwood	200, 201, 211, 245
LXI/Sears	236
Magnavox	229, 232
Marantz	229
McIntosh	221
Nakamichi	210
Onkyo	214, 215

Brand	Code
Optimus	208, 218, 220, 222
Panasonic	224, 225, 227
Philips	229, 230
Pioneer	208
Quasar	224, 225, 227
RCA	231, 237, 238, 247
Sansui	210, 246
Sanyo	205
Scott	210, 246
Sharp	242, 243
Sherwood	220
Sony	228
Soundesign	244
Teac	212, 216, 218
Technics	224, 225, 227
Victor	240, 241, 245
Yamaha	202, 203, 204

AUX

Codes for Personal Video Recorders

Brand	Code
Panasonic Replay TV	100
Philips Tivo	101
Sony Tivo	102

AUX

Codes for Cassette Deck

Brand	Code
Aiwa	223, 224, 225
Denon	231
Fisher	203
Jensen	214
JVC	229, 230
Kenwood	200, 207
Marantz	202
Nakamichi	205
Onkyo	208, 209, 213
Panasonic	216, 218

Brand	Code
Philips	222
Pioneer	204
RCA	226, 227, 228
Sansui	205, 210
Sharp	231
Sony	219, 220
Teac	210, 211, 215
Technics	216, 218
Yamaha	201, 202

RCVR

Codes for Receivers

Brand	Code
Admiral	120
Aiwa	125, 126
Denon	134, 135, 136
Fisher	104
Garrard	113
Harman Kardon	115, 123
Jensen	129
JVC	132, 133
Kenwood	100, 108
Magnavox	127
Marantz	124
McIntosh	116
Nakamichi	106
Onkyo	109, 114
Optimus	103, 127, 130, 131
Panasonic	118, 119, 121
Philips	123
Pioneer	105, 107
Quasar	118, 119, 121
RCA	103, 105, 127, 130, 131
Sansui	103, 111, 139
Sharp	134, 137
Sony	122
Soundesign	138
Teac	111, 112, 113
Technics	118, 119, 121
Victor	132, 133
Yamaha	101, 102

CBL

Codes for Cable Box

Brand	Code
ABC	124
Archer	125, 132
Cableview	105, 132
Citizen	105, 122
Curtis	112, 113
Diamond	124, 125, 132
Eagle	129
Eastern	134
GC Brand	105, 132
Gemini	122
General Instrument/Jerrold	111, 119, 120, 121, 122, 123, 124, 125, 126, 127
Hamlin	112, 118, 140, 141, 142, 145
Hitachi	103, 124
Macom	103, 104, 105
Magnavox	133
Memorex	130
Movietime	105, 132
Oak	102, 137, 139
Panasonic	109, 110, 114
Philips	106, 107, 128, 129, 130
Pioneer	101, 116
Pulsar	105, 132
Puser	132
RCA	115
Realistic	132
Regal	112, 118, 140, 141, 142, 145
Regency	134
Rembrandt	105, 132, 137
Samsung	105
Scientific Atlanta	111, 112, 113
Slmark	101, 105
Sprucer	105, 110
Stargate	105, 132
Tel eview	101, 105
Texscan	144
Tocom	135
Toshiba	104
Unika	125, 132
Universal	122, 132
Videoway	106
Viewstar	129, 130
Zenith	100, 117
Zenith /Drae Satellite	100

DBS

Codes for DBS

Brand	Code
Dish Network	105, 115, 116
Echo Star (Echostar)	105
Express VU	105, 115
G.E.	106
G.I. (General Instrument)	108
Gradiente	114
Hitachi	103, 111, 112
HNS (Hughes)	103
Magnavox	101, 102
Panasonic	104
Philips	101, 102
Primestar	108
Proscan	106, 109, 110, 113
RCA	106, 109, 110, 113
Sony	107
Star Choice	103, 108
Toshiba	100
Uniden	101, 102

Mode Operational Key Chart

This chart defines which keys that are operational after programming (if needed), while in the selected remote control mode, DTV, CABLE, DBS, VCR, DVD ...etc.

KEY NAME	DTV MODE	CABLE MODE	DBS MODE
POWER	POWER	POWER	POWER
CH ▲ / CH ▼	NAVIGATION UP/DOWN	CABLE CHANNEL UP/DOWN	DBS NAVIGATION UP/DOWN
OK	OK	–	DBS MENU
◄ VOL / VOL ►	NAVIGATION RIGHT/LEFT	–	DBS NAVIGATION RIGHT/LEFT
MENU	DTV MENU	–	–
RECALL	PROGRAM INFO.	–	DBS PROGRAM INFO.
EXIT	EXIT (EPG)ELECTRONIC PROGRAM GUIDE	–	EXIT DBS MENU
1 2 3 4 5 6 7 8 9 0	Select Channel	Select Channel	Select Channel
R-TUNE	PREVIOUS STB CHAN	CABLE PREVIOUS CHAN	DBS PREVIOUS CHAN
PROG —	DTV PROGRAM/DASH	–	–
REC	Info (EPG) ELECTRONIC PROGRAM GUIDE	–	–
PIP CH DVD/VCR CH ▼ ▲	–	–	DBS CHANNEL UP/DOWN

Operating peripheral equipment using the remote control

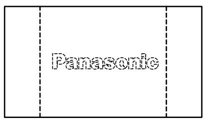
KEY NAME	VCR MODE	DVD/CD MODE (DVD)	(CD)	AUX MODE (PVR)	(VCR2)	(TAPE)	RCVR MODE
POWER	POWER	POWER	POWER	POWER	POWER	POWER	POWER
MUTE	–	–	–	–	–	–	RCVR MUTE
TV/VIDEO	TV INPUT SW	–	–	–	TV INPUT SW	–	RCVR INPUT SW
LIGHT	–	–	–	–	–	–	REMOTE BUTTONS
CH	–	NAVIGATION UP/DOWN	NEXT/PREVIOUS TRACK	NAVIGATION UP/DOWN	–	–	TUNER +/–
OK	–	–	–	–	–	–	–
VOL	–	–	–	NAVIGATION RIGHT/LEFT	–	VOLUME +/-	RCVR VOLUME +/-
MENU	–	–	–	PVR MENU	–	–	–
RECALL	ONSCREEN VCR DISPLAY	DVD DISPLAY	TIME FORMAT	–	ONSCREEN VCR DISPLAY	–	–
EXIT	–	–	–	EXIT PVR MENU	–	–	–
1 2 3 4 5 6 7 8 9 0	–	–	–	Select Channel	–	–	1.... AV1 2.... AV2 3.... AV3 4.... AV4 5.... CD 6.... TUNER 7.... PHONO 8.... TAPE 9.... AUX
R-TUNE	–	–	–	PREVIOUS CHAN RELAY ZONES	–	DECK A/B	–
PROG	–	–	–	PVR RETURN TO LIVE	–	–	–
PIP MIN REW ◄◄ / PIP MAX FF ►►	VCR REW/FF	SKIP SEARCH REW/FF	SEARCH REW/FF	–	VCR REW/FF	TAPE REW/FF	SURROUND –/+
PLAY	PLAY	PLAY	PLAY	PLAY	PLAY	PLAY	–
PAUSE	PAUSE	STILL/PAUSE	PAUSE	PAUSE	PAUSE	PAUSE	–
STOP	STOP	STOP	STOP	–	STOP	STOP	–
REC	VCR RECORD	–	–	PVR RECORD	VCR RECORD	TAPE RECORD	–
FREEZE TV/VCR	TV/VCR SWITCH	SLOW +/–	–	–	TV/VCR SWITCH	–	–
PIP CH DVD/VCR CH ▼ ▲	VCR CHANNEL UP/DOWN	–	–	PVR CHANNEL UP/DOWN	VCR CHANNEL UP/DOWN	–	RCVR CENTER +/–
SEARCH OPEN/CLOSE	–	OPEN/CLOSE	OPEN/CLOSE	PVR QUICK SKIP	–	–	–

Troubleshooting Chart

Before calling for service, determine the symptoms and follow suggested solutions.

Symptoms		Solutions	Page
VIDEO	AUDIO		
Snowy Video	Noisy Audio	• Adjust the antenna location and connection.	13, 14
Multiple Image	Noisy Audio	• Adjust the antenna location and connection. • Check the antenna lead-in cable.	13, 14 13, 14
Interference	Noisy Audio	• Move the television away from electrical appliances, lights, vehicles and medical equipment.	–
Normal Video	No Audio	• Increase volume. • Check Mute. • Check Television Speakers on/off. • Change channel.	23 20 29 23
No Video with Snow	Noisy Audio	• Set Input Setup properly. • Check the antenna cables.	36 13, 14
No Video / No PIP	No Audio	• Check the power cord is plugged into the wall outlet. • Adjust Brightness and Audio controls. • Change channel. • Check the cable connections. • Program the remote control code. • Check the second video source operation. • Make sure that a PC is not connected to HDMI input. Rarely, the TV will not display video in HDMI input from devices with HDMI or DVI output due to bad communication between the TV and the devices. Should this happens, unplug the HDMI/DVI device and plug it back on.	19 26,28,29 23 13-18 59-61 59-64 15
No Color	Normal Audio	• Adjust Color settings. • Change channel.	26, 27 23
Digitalization of image Image freeze up	Audio Break up	• Re-orient the ATSC antenna. • Check signal meter. If the signal is weak, add a signal booster to boost the signal strength.	– 38
Normal Video	Wrong Audio	• Check the audio mode is set to Stereo or Mono, Not SAP. • Change the audio of the HDMI device to Linear PCM. • Check the audio setting for HDMI. If there is functional problem with Digital Audio, use Analog audio.	21 – 29
Black Box on Screen	Normal Audio	• Change CC (Closed Caption).	39, 40
Normal Video	Normal Audio	• Replace the remote control batteries.	9
Intermittent Remote Control Operation			
Cannot select Antenna B		• Perform Auto Scan.	36

Plasma Display panel

Symptoms	Check	Page
Some parts of the screen do not light up.	• The plasma display panel is manufactured using an extremely high level of precision technology, however, sometimes some parts of the screen may be missing picture elements or have luminous spots. This is not a malfunction.	–
 An after-image appears	• Do not allow a still picture to be displayed for an extended period, as this can cause a permanent after-image to remain on the Plasma TV. Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode. **Note:** The permanent after-image on the Plasma TV resulting from fixed image use is not an operating defect and as such is not covered by the Warranty. This product is not designed to display fixed images for extended periods of time.	56
Whirring sounds can be heard from the display unit.	• The TV is fitted with a cooling fan to dissipate heat generated during normal use. The rotating fan may cause a whirring sound but it is not a malfunction. • The TV slightly consumes power and rotates the cooling fan even when turned off in order to receive program guide data etc. through the Cable CARD. The rotating fan may cause a whirring sound but it is not a malfunction.	– –

VIDEO/COMPONENT/RGB/PC/HDMI input signals

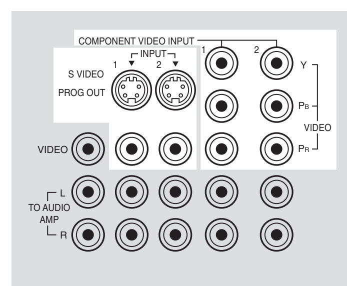
VIDEO input

	signal name	horizontal frequency(kHz)	vertical frequency(Hz)
1	NTSC	15.73	59.94

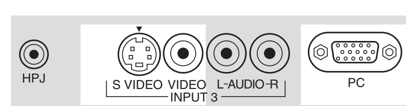
Applicable input signals (∗ mark)

	signal name	horizontal frequency(kHz)	vertical frequency(Hz)	COMPONENT	PC	HDMI
1	525 (480) /60i	15.73	59.94	∗	∗	∗
2	525 (480) /60p	31.47	59.94	∗	∗	∗
3	750 (720) /60p	45.00	60.00		∗	
4	1,125 (1,080) /60i	33.75	59.94	∗	∗	∗
5	640 × 400 @70	31.47	70.00		∗	
6	640 × 480 @60	31.47	59.94		∗	
7	Macintosh13” (640 × 480)	35.00	66.67		∗	
8	640 × 480 @75	37.50	75.00		∗	
9	852 × 480 @60	31.50	60.00		∗	
10	800 × 600 @60	37.88	60.32		∗	
11	800 × 600 @75	46.88	75.00		∗	
12	800 × 600 @85	53.67	85.06		∗	
13	Macintosh16” (832 × 624)	49.73	74.55		∗	
14	1,024 × 768 @60	48.36	60.00		∗	
15	1,024 × 768 @70	56.48	70.07		∗	
16	1,024 × 768 @75	60.02	75.03		∗	
17	1,024 × 768 @85	68.68	85.00		∗	
18	Macintosh21” (1,152 × 870)	68.68	75.06		∗	
19	1,280 × 1,024 @60	63.98	60.02		∗	
20	1,280 × 1,024 @75	79.98	75.03		∗	
21	1,280 × 1,024 @85	91.15	85.02		∗	
22	1,600 × 1,200 @60	75.00	60.00		∗	

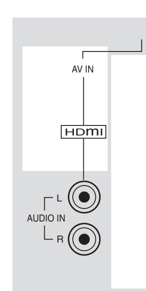
Note: Signals without above specification may not be displayed properly.



VIDEO input
COMPONENT input



VIDEO input **PC RGB input**



HDMI input

Specifications

	TH-37PX25	TH-42PX25	TH-50PX25
Power Source	AC 120 V, 50/60 Hz		
Power Consumption	Maximum : 395 W Stand-by condition : 18 W	Maximum : 445 W Stand-by condition : 18 W	Maximum : 545 W Stand-by condition : 18 W
Plasma Display panel	Drive method : AC type 37-inch, 16 : 9 aspect ratio	Drive method : AC type 42-inch, 16 : 9 aspect ratio	Drive method : AC type 50-inch, 16 : 9 aspect ratio
Screen Size	32.20 ” (818 mm) (W) × 18.15 ” (461 mm) (H) × 36.97 ” (939 mm) (diagonal)	36.22 ” (920mm) (W) × 20.39 ” (518 mm) (H) × 41.57 ” (1056 mm) (diagonal)	43.54 ” (1106 mm) (W) × 24.49 ” (622 mm) (H) × 49.96 ” (1269 mm) (diagonal)
Dimensions (W × H × D)	40.94 ” (1040 mm) × 27.44 ” (697 mm) × 5.47 ” (139 mm)	44.88 ” (1140 mm) × 29.8 ” (757 mm) × 5.47 ” (139 mm)	52.32 ” (1329mm) × 34.25 ” (870 mm) × 5.47 ” (139 mm)
Mass (Weight)	81.6 lb. (37 kg) Net	92.6 lb. (42 kg) Net	125.7 lb. (57 kg) Net
Channel Capability-ATSC/NTSC	VHF/ UHF : 2-69, CATV:1-135		
Sound — **Speaker**	Woofer φ 80 mm × 2, Tweeter 16 mm × 73 mm × 8		
Sound — **Audio Output**	26 W [5 W + 5 W, 8 W + 8 W] (10 % THD)		
Sound — **Headphone**	M3 (3.5 mm) Jack × 1		
FEATURES	Two screen display fuctions BBE VIVA 3D CLOSED CAPTION 3D Y/C FILTER LINEAR PIP V-Chip HDMI JPEG Viewer		
Accessories Supplied	Remote control: EUR7627Z10 AA Battery × 2 AC Cord Pedestal Clamper × 2 Ferrite cores : large × 4, small × 5 F-type antenna adapter (3C-2V × 2, 5C-2V × 2)		
Operating Conditions	Temperature : 34 °F - 104 °F (0 ° – 40 °C) Humidity : 20 % - 80 % (non-condensing)		

Connection Terminals

RGB input	D-SUB 15pin	R,G,B / 0.7 Vp-p (75 Ω) HD, VD / 1.0 - 5.0 Vp-p (high impedance)
AV INPUT 1- 3	VIDEO (Phono Jack Type)	1.0 Vp-p (75 Ω)
	S-VIDEO (Mini DIN 4-pin)	Y : 1.0 Vp-p (75 Ω), C : 0.286 Vp-p (75 Ω)
	AUDIO L-R (Phono Jack Type × 2)	0.5 Vrms
AV PROG. OUT	VIDEO (Phono Jack Type)	1.0 Vp-p (75 Ω)
	AUDIO L-R (Phono Jack Type × 2)	0.5 Vrms
TO AUDIO AMP	AUDIO L-R (Phono Jack Type × 2)	0.5 Vrms
COMPONENT VIDEO INPUT1-2	Y	1.0 Vp-p (including synchronization)
	P_B / P_R	± 0.35 Vp-p
	AUDIO L-R (Phono Jack Type × 2)	0.5 Vrms
HDMI	HDMI type A Connector	
	AUDIO L-R (Phono Jack Type × 2)	0.5 Vrms
DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic	

Note: Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.

PANASONIC CONSUMER ELECTRONICS COMPANY,
DIVISION OF
MATSUSHITA ELECTRIC CORPORATION OF AMERICA
One Panasonic Way
Secaucus, New Jersey 07094

PANASONIC SALES COMPANY,
DIVISION OF
MATSUSHITA ELECTRIC OF PUERTO RICO,
INC., Ave. 65 de Infanteria, Km. 9.5
San Gabriel Industrial Park
Carolina, Puerto Rico 00985

Panasonic Display Product Limited Warranty

Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as “the warrantor”) will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

TV CATEGORY	ALL PARTS	LABOR	SERVICE
PLASMA DISPLAY	1 (ONE) YEAR	1 (ONE) YEAR	IN-HOME OR CARRY-IN

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must carry-in your product or arrange for in-home service during the warranty period. If non-rechargeable batteries are included, they are not warranted. This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is". A purchase receipt or other proof of the original purchase date is required for warranty service.

Carry-in or In-Home Service

For In-Home or Carry-In Service in the United States call 1-888-VIEW-PTV (1-888-843-9788).
For assistance in Puerto Rico call Panasonic Sales Company (787)-750-4300 or fax (787)-768-2910.

In-Home service requires clear, complete and easy access to the product by the authorized servicer and does not include removal or re-installation of an installed product. It is possible that certain in-home repairs will not be completed in-home, but will require that the product, or parts of the product, be removed for shop diagnosis and/or repair and then returned.

Limited Warranty continued on next page

Limited Warranty continued from previous page

Limited Warranty Limits And Exclusions

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Version 2, June 1991

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

Customer's Record

The model number and serial number of this product can be found on its back cover. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

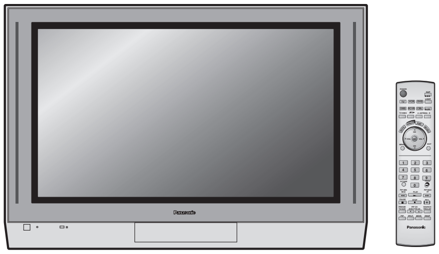
Model Number ______________________ Serial Number ______________________

Panasonic Consumer Electronics Company, Division of Matsushita Electric Corporation of America
One Panasonic Way Secaucus,
New Jersey 07094

Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico Inc. (PSC)
Ave. 65 de Infanteria, Km 9.5
San Gabriel Industrial Park,
Carolina, Puerto Rico 00985

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Panasonic®



Manual de instrucciones
Televisor digital de alta definición con pantalla de plasma

Número de modelo **TH-37PX25**
TH-42PX25
TH-50PX25



Para solicitar ayuda, llame al: 1-888-VIEW-PTV (843-9788) **o envíe correo electrónico a: consumerproducts@panasonic.com** **o visítenos en www.panasonic.com**	**(EE.UU.)**
Para solicitar ayuda, llame al: 787-750-4300 **o visítenos en www.panasonic.com**	**(Puerto Rico)**

Antes de conectar, utilizar o ajustar este producto, lea completamente este manual de instrucciones; y guárdelo para consultarlo en el futuro en caso de ser necesario.

Español

TQB2AA0520

ADVERTENCIA

RIESGO DE DESCARGA ELÉTRICA NO ABRIR

ADVERTENCIA: Para reducir el riesgo de sufrir una descarga eléctrica, no retire la cubierta ni el panel posterior. En el interior no hay piezas que deba reparar el usuario. Solicite las reparaciones al personal de servicio calificado.

El rayo con punta de flecha dentro de un triángulo equilátero tiene la finalidad de avisar al usuario de que hay piezas en el interior del producto que si las tocan las personas éstas pueden recibir una descarga eléctrica.

El signo de exclamación dentro de un triángulo equilátero tiene la finalidad de avisar al usuario de la existencia de instrucciones de utilización y servicio importantes en el material impreso que acompaña al aparato.

ADVERTENCIA: Para reducir el riesgo de que se produzca un incendio o de sufrir una descarga eléctrica, no exponga este aparato a la lluvia ni a la humedad. No ponga encima del aparato (incluyendo estanterías que se encuentren encima del mismo, etc.) recipientes con agua (floreros, tazas, cosméticos, etc.).

ADVERTENCIA: Como cualquier objeto pequeño, las tarjetas SD pueden ser tragadas por niños pequeños. No deje la tarjeta SD al alcance de los niños.

ADVERTENCIA:
1) Para impedir recibir descargas eléctricas, no retire la cubierta. En el interior no hay piezas que deba reparar el usuario. Solicite las reparaciones al personal de servicio calificado.
2) No quite la clavija de puesta a tierra del enchufe de alimentación. Este aparato está equipado con un enchufe de alimentación de tres clavijas, una de las cuales sirve para hacer la puesta a tierra. Este enchufe sólo puede conectarse a un tomacorriente que también disponga de puesta a tierra. Esto constituye una medida de seguridad. Si no puede introducir el enchufe en el tomacorriente, póngase en contacto con un electricista. No anule la finalidad de la clavija de puesta a tierra.

Nota:
No permita que una imagen fija se muestre durante mucho tiempo, porque esto puede ser la causa de que quede una imagen fantasma permanente en la TV de plasma.
Los ejemplos de imágenes fijas incluyen logotipos, videojuegos, imágenes de computadora, teletexto e imágenes mostradas en el formato 4:3.

Fabricado bajo autorización de Laboratorios Dolby. “Dolby” y el simbolo doble-D son marcas registradas de los Laboratorios Dolby.

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Instrucciones de seguridad importantes

1) Lea estas instrucciones.

2) Guarde estas instrucciones.

3) Cumpla con todas las advertencias.

4) Siga todas las instrucciones.

5) No utilice este aparato cerca del agua.

6) Limpie el aparato solamente con un paño seco.

7) No tape las aberturas de ventilación.

8) No instale el aparato cerca de fuentes de calor como, por ejemplo, radiadores, salidas de aire caliente, estufas y otros aparatos (incluyendo amplificadores) que produzcan calor.

9) No anule la característica de seguridad del enchufe polarizado o del enchufe del tipo de puesta a tierra. Un enchufe polarizado tiene dos clavijas, una más ancha que la otra. Un enchufe de puesta a tierra tiene dos clavijas y una espiga de puesta a tierra. La clavija ancha y la espiga de estos enchufes han sido suministradas para su seguridad. Si el enchufe suministrado no puede conectarse al tomacorriente, consulte a un electricista para que le cambie el tomacorriente obsoleto.

10) Proteja el cable de alimentación para que no lo pisen ni lo pellizquen, especialmente en el enchufe, tomacorriente y en el punto donde sale del aparato.

11) Utilice solamente los accesorios especificados por el fabricante.

12) Utilice solamente el aparato con el carrito, base, trípode, soporte o mesa especificado por el fabricante o vendido con el aparato. Cuando se utilice un carrito, tenga cuidado al mover la combinación del carrito / aparato para evitar heridas en el caso de que ésta se dé la vuelta.



13) Desenchufe este aparato durante las tormentas eléctricas o cuando no lo utilice durante un largo periodo de tiempo.

14) Solicite todas las reparaciones al personal de servicio calificado. Las reparaciones resultan necesarias cuando el aparato se ha estropeado de cualquier forma: se ha estropeado el cable o el enchufe de alimentación, se ha derramado líquido o han caído objetos dentro del aparato, el aparato ha quedado expuesto a la lluvia o a la humedad, no funciona normalmente o se ha caído.

15) Para impedir las descargas eléctricas, asegúrese de que la patilla de puesta a tierra de la clavija del cable de alimentación de CA esté firmemente conectada.

Estimado cliente de Panasonic

Bienvenido a la familia de clientes de Panasonic. Esperamos que disfrute durante muchos años de su nuevo televisor de Plasma.
Para obtener el máximo beneficio de su televisor, lea estas instrucciones antes de hacer cualquier ajuste, y guárdelas para poder consultarlas en el futuro en caso de ser necesario.
Guarde también su recibo de compra, y anote el número del modelo y el número de serie de su televisor en el espacio provisto en la contraportada de estas instrucciones.

Visite nuestro sitio web Panasonic : www.panasonic.com

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Aviso de seguridad importante

DECLARACIÓN DE LA FCC

Este equipo ha sido probado y ha demostrado cumplir con los límites establecidos para dispositivos digitales de la Clase B, de conformidad con el Apartado 15 de las Normas de la FCC. Estos límites han sido diseñados para proporcionar una protección razonable contra las interferencias perjudiciales en una instalación residencial. Este equipo genera, utiliza y puede radiar energía radioeléctrica, y si no se instala y utiliza de acuerdo con las instrucciones, puede causar interferencias perjudiciales en las comunicaciones por radio. Sin embargo, no existe ninguna garantía de que las interferencias no se produzcan en una instalación particular. Si este equipo causa interferencias perjudiciales en la recepción de la radio o la televisión, lo que puede determinarse apagando y encendiendo el equipo, al usuario se le recomienda intentar corregir la interferencia tomando una o más de las medidas siguientes:

- Cambie la orientación o el lugar de instalación de la antena.
- Aumente la separación entre el equipo y el receptor.
- Conecte el equipo a una toma de corriente diferente de aquella a la que está conectada el receptor.
- Consulte a su concesionario o a un técnico en radio/TV con experiencia para solicitar su ayuda.

Este aparato cumple con el Apartado 15 de las Normas de la FCC. El funcionamiento está sujeto a las dos condiciones siguientes: (1) Este aparato no debe causar interferencias perjudiciales, y (2) debe aceptar cualquier interferencia recibida, incluyendo aquellas que puedan causar un funcionamiento no deseado.

AVISO DE LA FCC:
Para garantizar el cumplimiento continuo de las normas y evitar posibles interferencias no deseadas, cuando esta alta definición televisor de plasma se conecte a un equipo de vídeo deberán utilizarse los núcleos de ferrita suministrados; y deberá mantenerse una distancia de 40 cm como mínimo con relación a otros dispositivos periféricos. Consulte las instrucciones de las páginas 10, 13, 14, 17, 18.
Cualquier cambio o modificación realizado en este televisor sin la aprobación expresa de Matsushita Electric Corporation of América podría causar interferencias perjudiciales y anular la autoridad que tiene el usuario para utilizar este aparato.

Declaración de conformidad de la FCC
Número de modelo TH-37PX25, TH-42PX25, TH-50PX25

Responsable: Matsushita Electric Corporation of America
One Panasonic Way, Secaucus, NJ 07094
Dirección de contacto: Panasonic Consumer Electronics Company
1-888-843-9788
correo electrónico: consumerproducts@panasonic.com

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  Aunque no se mencionen especialmente marcas comerciales de compañías o productos, tales marcas comerciales están plenamente reconocidas.

Índice

Precauciones para su seguridad

⚠ ADVERTENCIA

Instalación

No instale la televisor de plasma sobre superficies inclinadas o poco estables.
- La televisor de plasma puede caerse o darse vuelta.

No coloque objetos encima de la televisor de plasma.
- Si se derrama agua en la televisor de plasma o entran objetos extraños en su interior, se puede provocar un cortocircuito que causará fuego o descarga eléctrica. Si entran objetos extraños en el interior de la televisor de plasma, consulte con su tienda local de Panasonic.

No cubra los orificios de ventilación.
- La televisor de plasma puede calentarse excesivamente provocado fuego o daños en la televisor de plasma.

Si se utiliza un pedestal, deje un espacio de 3 15/16" (10 cm) o más en la parte superior, izquierda y derecha, 2 3/8" (6 cm) o más en la parte inferior y 2 3/4" (7 cm) o más en la parte posterior. Si se utiliza algún otro método de instalación, deje un espacio de 3 15/16" (10 cm) o más en la parte superior, inferior, izquierda y derecha y 3/4" (1,9 cm) o más en la parte posterior.

Evite instalar este producto cerca de equipos electrónicos que puedan ser afectados fácilmente por las ondas electromagnéticas.
- Este producto puede causar interferencias en la imagen, en el sonido, etc. En particular, mantenga los equipos de vídeo alejados de este producto.

Cable de alimentación de CA

La televisor de plasma fue diseñada para funcionar con una CA de 120 V, 50/60 Hz.

Inserte completamente el enchufe del cable eléctrico.
- Si el enchufe no ha entrado completamente puede generar calor y ser el origen de un incendio. Si el enchufe está dañado o el tomacorriente está flojo, no los utilice.

No toque el enchufe del cable eléctrico con las manos mojadas.
- Puede recibir una descargue eléctrica.

No haga nada que pueda dañar el cable eléctrico. Cuando desenchufe el cable eléctrico, sujete del enchufe y no el cable.
- No dañe el cable eléctrico, no lo modifique ni coloque objetos pesados encima, ni coloque cerca de objetos que desprendan calor, no tuerza ni tire excesivamente del mismo. Esto puede provocar un fuego o descarga eléctrica. Si el cable eléctrico está dañado, solicite la reparación en su tienda local de Panasonic.

Si no se utiliza la televisor de plasma durante un largo período de tiempo, desenchufe el cable eléctrico del tomacorriente.

Si se producen problemas durante el uso

Si se produce un problema (por ejemplo falta la imagen o sonido), o si sale humo o hay olores no normales de la televisor de plasma, desenchufe inmediatamente el cable eléctrico del tomacorriente.
- Si sigue utilizando la televisor de plasma en estas condiciones, puede provocar un fuego o descarga eléctrica. Después de comprobar que ha dejado de salir humo, llame a su tienda local de Panasonic para solicitar las reparaciones necesarias. No repare la Alta definición televisor de plasma por su cuenta ya que es muy peligroso.

Si entra agua o materias extrañas en el interior de la televisor de plasma, si se ha caído la televisor de plasma o si el mueble exterior está dañado, desenchufe inmediatamente el cable eléctrico.
- Puede provocar un cortocircuito que inicie un incendio. Llame a su tienda local de Panasonic para hacer las reparaciones necesarias.

⚠ PRECAUCION

Esta la televisor de plasma puede utilizarse sólo con los siguientes accesorios opcionales. El uso con cualquier otro tipo de accesorios opcionales puede causar inestabilidad y terminar provocando daños.

(Matsushita Electric Industrial Co., Ltd. fabrica todos los accesorios siguientes.)

- Pedestal (incluido) TY-ST42PX20 (TH-37PX25, TH-42PX25)
  TY-ST50PX20 (TH-50PX25)
- Abrazadera de suspensión de pared (Vertical) TY-WK42PV3U
- Abrazadera de suspensión de pared (Anglado) TY-WK42PR2U
- Exhibir estante TY-S37PX20W (TH-37PX25)
  TY-S42PX20W (TH-42PX25)
  TY-S50PX20W (TH-50PX25)
  TY-DP4201W (TH-37PX25, TH-42PX25, TH-50PX25)

Solicite ayuda de un técnico cualificado para realizar la instalación.

Cuando utilice la televisor de plasma

No acerque sus manos, rostro u otros objetos cerca de los orificios de ventilación de la televisor de plasma.
- El aire que sale de los orificios de ventilación y de la parte superior de la televisor de plasma está caliente. No acerque sus manos, cara u objetos que no puedan soportar el calor, a estos orificios porque puede quemarse.

Desconecte todos los cables antes de mover la televisor de plasma.
- Si fuera necesario mover la televisor de plasma a otro lugar y se dejan algunos cables conectados, éstos pueden dañarse, provocar un incendio o una descarga eléctrica.

Desenchufe el cable eléctrico del tomacorriente como medida de seguridad antes de realizar una limpieza.
- Puede sufrir una descarga eléctrica si no lo hace.

Limpie el cable eléctrico a intervalos regulares para evitar que se cubra por el polvo.
- Si hay acumulación de polvo en el enchufe del cable eléctrico, la humedad puede acumularse y dañar el aislamiento, provocando un incendio. Desenchufe el cable eléctrico del tomacorriente y limpie con un paño seco.

Esta televisor de plasma radia rayos infrarrojos, y por lo tanto puede afectar a otros equipos de comunicación por infrarrojos. Instale su sensor de infrarrojos en un lugar alejado de la luz directa de su televisor de plasma o de la luz reflejada por ella.

Limpieza y mantenimiento

El frente del panel de la pantalla ha recibido un tratamiento especial. Limpie suavemente la superficie del panel utilizando el paño de pulido o un paño suave.
- Si la superficie está especialmente sucia, limpie con un paño suave empapado en agua o agua mezclada con una pequeña cantidad de detergente neutro, frote uniformemente con un paño seco del mismo tipo hasta que la superficie quede completamente seca.
- No raye o golpee la superficie del panel con sus uñas u otros objetos duros ya que la superficie puede dañarse. Además, evite el contacto con sustancias volátiles tales como rociadores de insecticida, disolventes y diluyentes de pintura, de lo contrario puede verse afectada la calidad de la superficie.

Si el mueble se ensucia, limpie con un paño suave y seco.
- Si el mueble está muy sucio, empape el paño en agua mezclada con una pequeña cantidad de detergente neutro y escurra el paño hasta eliminar el agua. Utilice el paño para limpiar el mueble y seque frotando con un paño seco.
- No permita que el detergente entre en contacto directo con la superficie de la Alta definición televisor de plasma. Si las gotas de agua entran en el interior del aparato, pueden surgir problemas en el funcionamiento.
- Evite el contacto con sustancias volátiles tales como rociadores de insecticida, disolventes y diluyentes de pintura debido a que puede verse afectada la superficie del mueble y puede desprenderse el revestimiento. Tampoco deje la superficie por mucho tiempo en contacto con artículos de caucho o PVC.

Nota:
No permita que una imagen fija se visualice durante mucho tiempo porque esto podrá ser la causa de que quede una imagen secundaria en la televisor de plasma.
Entre los ejemplos de imagen fija se incluyen logotipos, imágenes de videojuegos, imágenes de ordenador, teletexto e imágenes visualizadas en el modo 4:3.

Instalación

Ubicación del receptor

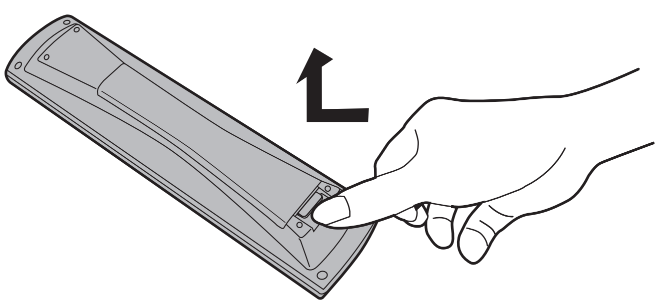
Este aparato ha sido diseñado para ser utilizado con una base o centro de entretenimiento opcional. Consulte a su concesionario para conocer las opciones que se encuentran disponibles. Coloque el aparato en un lugar que pueda verse confortablemente.
Evite los lugares donde la luz del sol u otras luces brillantes (incluyendo los reflejos) caigan sobre la pantalla.
La utilización de algunos tipos de iluminación fluorescentes puede reducir el alcance del control remoto.
La ventilación adecuada es esencial para impedir que fallen los componentes internos. Mantenga el aparato alejado de las zonas donde el calor o la humedad son excesivos.

Equipo externo opcional

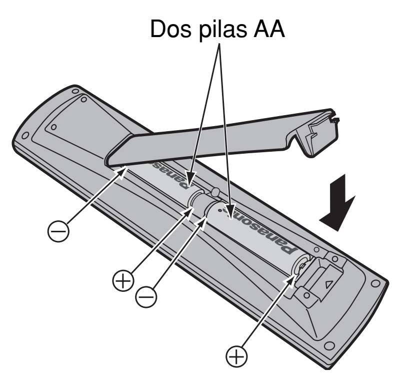
La conexión de vídeo/audio entre componentes se puede hacer con cables de vídeo y audio blindados. Para obtener el mejor rendimiento, los cables de vídeo deberán utilizar conductor blindado coaxial de 75 ohmios. Los cables podrá adquirirlos en el establecimiento de su concesionario o en tiendas de componentes electrónicos. Antes de comprar cualquier cable, asegúrese de conocer qué tipo de conectores de salida y entrada necesitan sus diversos componentes. Determine también cuál es la longitud del cable que necesita.

Instalación de las pilas en el control remoto

1. Abra la cubierta de las pilas.



2. Instale las pilas y vuelva a poner la tapa. Tenga en cuenta las polaridades (+ y -) al instalar las pilas.



Consejos útiles
A los usuarios que utilizan frecuentemente el control remoto se les recomienda sustituir las pilas viejas por pilas alcalinas que duran más.

Consejos útiles
Siempre que retire las pilas, **puede que necesite volver a poner las claves del control remoto de infrarrojos.** Le recomendamos anotar la clave de la página 59 antes de preparar el control remoto.

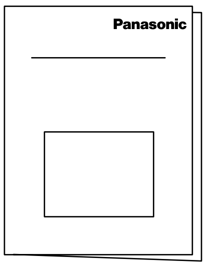
⚠ Precauciones relacionadas con el uso de las pilas

La instalación incorrecta de las pilas puede causar fugas en las mismas y corrosión, lo que dañará el control remoto.
Tenga en cuenta las precauciones siguientes:
1. Las pilas deberán sustituirse siempre en pares. Utilice siempre pilas nuevas cuando sustituya las pilas viejas.
2. No mezcle una pila usada con otra nueva.
3. No mezcle pilas de tipos diferentes (ejemplo: "carbono y cinc" con "alcalinas").
4. No intente cargar, cortocircuitar, desarmar, calentar o quemar las pilas usadas.
5. Las pilas tendrán que sustituirse cuando el control remoto funcione esporádicamente o no pueda controlar el televisor.

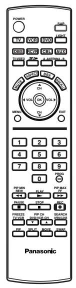
Accesorios

Compruebe que ha recibido todos los accesorios indicados

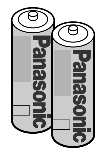
☐ Manual de instrucciones



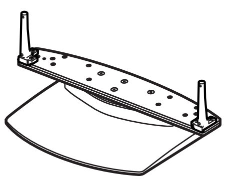
☐ Transmisor del mando a distancia EUR7627Z10



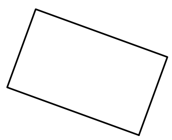
☐ Pilas para el transmisor de mando a distancia (2 × tamaño AA)



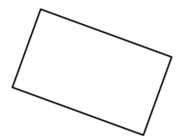
☐ Pedestal
TY-ST42PX20 (TH-37PX25, TH-42PX25)
TY-ST50PX20 (TH-50PX25)



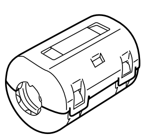
☐ Tarjeta de registro



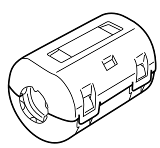
☐ Tarjeta para el plan de asistencia al cliente



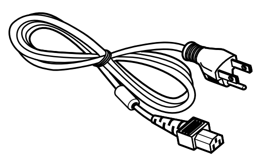
☐ Núcleo de ferrita
Tamaño pequeño × 5



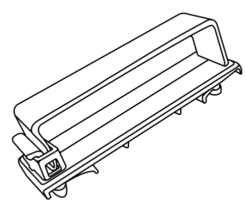
Tamaño grande × 4



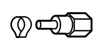
☐ Cable de CA



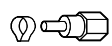
Abrazadera (×2)



☐ Adaptador de antena tipo F
(para 3C-2V) (×2)



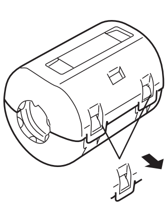
(para 5C-2V) (×2)



Instalación del núcleo de ferrita

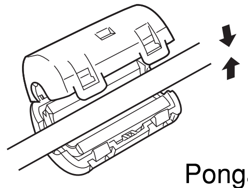
Asegúrese de elegir el núcleo de ferrita del tamaño apropiado (grande o pequeño) y el modo de instalación correcto del cable (enrollando o pasando el cable), como se indica en cada diagrama de conexión de las páginas siguientes (13, 14, 17, 18).

1

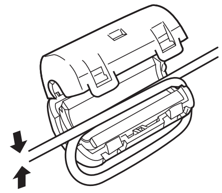


Tire de las lengüetas (dos lugares) para abrir.

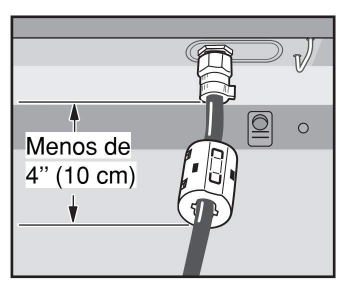
2 (Tamaño grande)



(Tamaño pequeño)



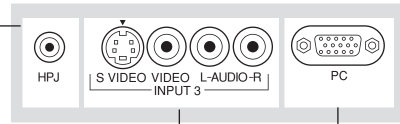
Ponga el cable y cierre.

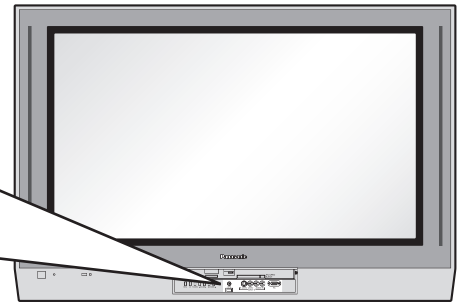


Conexión de cables

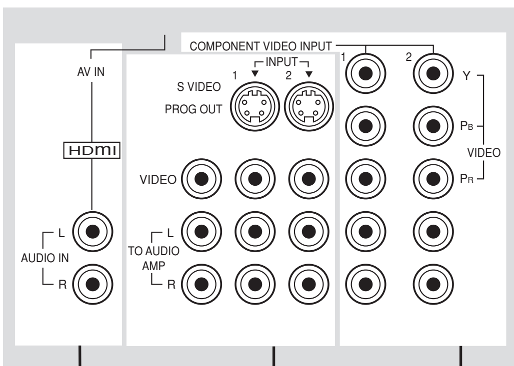
Jack de los cascos auriculares/auriculares (vea la página 17)

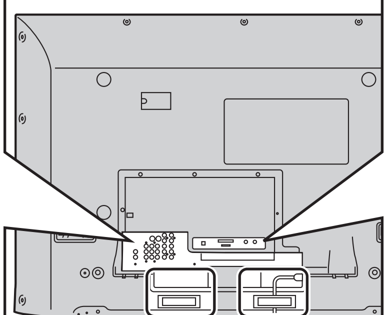
Terminal AV frontal (vea la página 17)



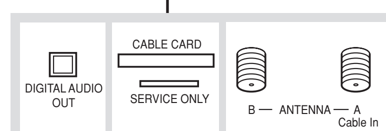


Desde el terminal de monitor EXTERNO en Computador (vea la página 18)





La ranura CableCARD (vea la página 14)



Terminale de entrada HDMI (vea la página 15)

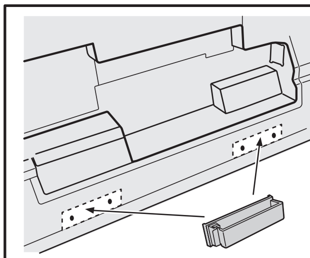
Terminales de entrada de Componente (vea la página14)

Terminales de audio y video (vea las páginas 16, 17)

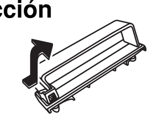
Al terminal DIGITAL AUDIO OUT (vea la página 16)

Terminal de antena (vea las páginas 13, 14)

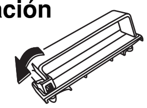
Abrazadera

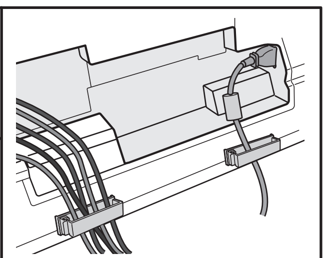


Extracción



Instalación



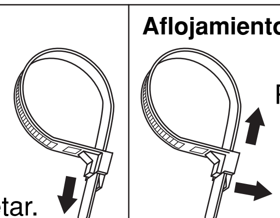


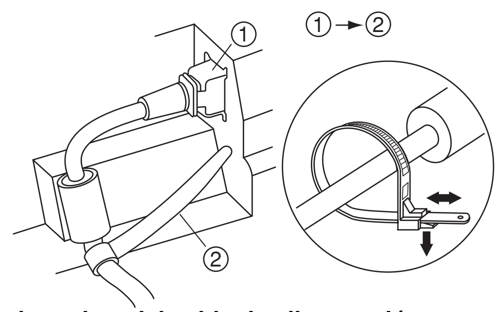
Apriete del cable de alimentación y otros cables

Método de apriete de otros cables
Coloque la abrazadera en el agujero de instalación y apriételos.
Ate el cable con la abrazadera de apriete del cable.

Banda de apriete

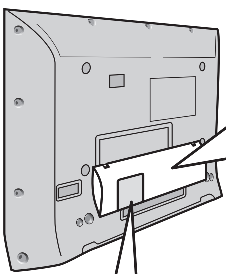
Apriete	Aflojamiento
Para apretar.	Para soltar. Mantenga presionada la lengüeta.



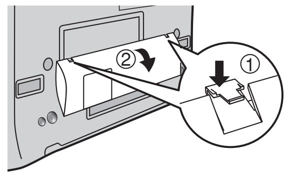


Método de apriete del cable de alimentación
1. Introduzca la clavija de alimentación en el cuerpo principal.
2. Apriete con la banda de apriete del cable de alimentación.

Extracción y colocación de la cubierta de los cables

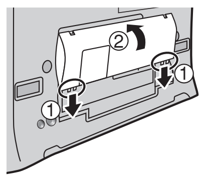


Extracción

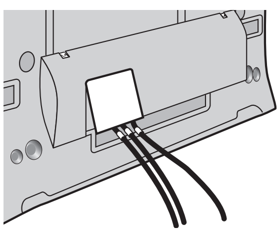


1. Empuje los ganchos hacia abajo y tire ligeramente de la cubierta hacia usted para soltarlos (en 4 puntos).
2. Sáquela lentamente hacia abajo.

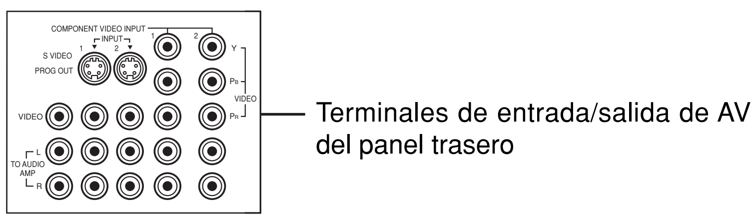
Colocación



1. Introduzca los ganchos (en 4 puntos) en el extremo inferior.
2. Empuje la cubierta hasta que quede enganchada haciendo un ruido seco.



Cuando haga conexiones a los terminales de entrada/salida de AV del panel trasero, conecte los cables a través de esta ventana.



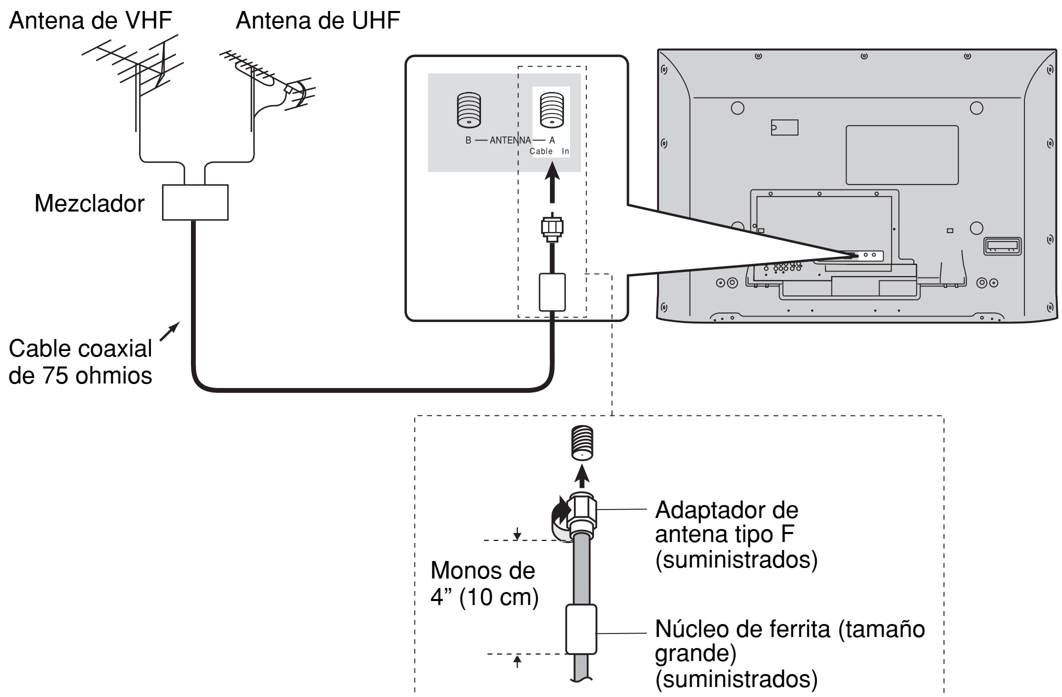
(Esta ventana no se puede cerrar completamente si usted conecta los cables.)

Otros cables deberán conectarse antes de colocar la cubierta de los cables.

Nota:
A menos que se indique lo contrario, los cables y los adaptadores no se suministran con este aparato.

Conexión de la antena

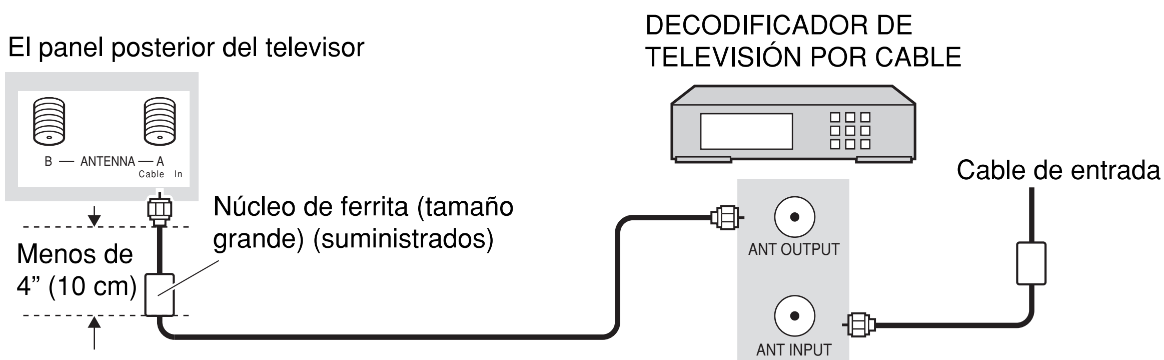
- Para recibir correctamente los canales de VHF/UHF se necesita una antena externa. Para obtener la mejor recepción se recomienda una antena exterior.
- Cuando disfrute de los programas de TV terrestre solamente, conecte la antena de casa a ANTENNA (A). Cuando disfrute de los programas de TV terrestre y de los programas de TV por cable, **conecte el cable de TV por cable por cable a ANTENNA (A) y el cable de la antena terrestre a ANTENNA (B).**
- Seleccione el modo de antena en Input Setup (Programación de entrada) (vea la página 22).



Notas:
- Ciertos sistemas de televisión por cable neutralizan algunos canales para reducir la interferencia o tener canales de alta calidad (codificados). En estos casos, para que la recepción sea apropiada, será necesario disponer de un decodificador de televisión por cable. Consulte con su compañía de televisión por cable para conocer los requerimientos de compatibilidad.
- Para obtener una imagen y un sonido de calidad óptima se necesita una antena, el cable correcto (coaxial de 75 ohmios) y la clavija de terminación correcta.
- Si se utiliza un sistema de antena comunitaria, tal vez necesite emplear una clavija y un cable de conexión correctos entre el zócalo de antena de pared y su receptor de televisión.
- El centro de servicio de televisión de su localidad o su concesionario podrán ayudarle a obtener el sistema de antena correcto para su zona particular y los accesorios necesarios.
- Cualquier tema relacionado con la instalación de la antena, la mejora de los sistemas o accesorios existentes requeridos y los gastos incurridos son responsabilidad exclusiva de usted, el cliente.

Conexión de decodificador de televisión por cable

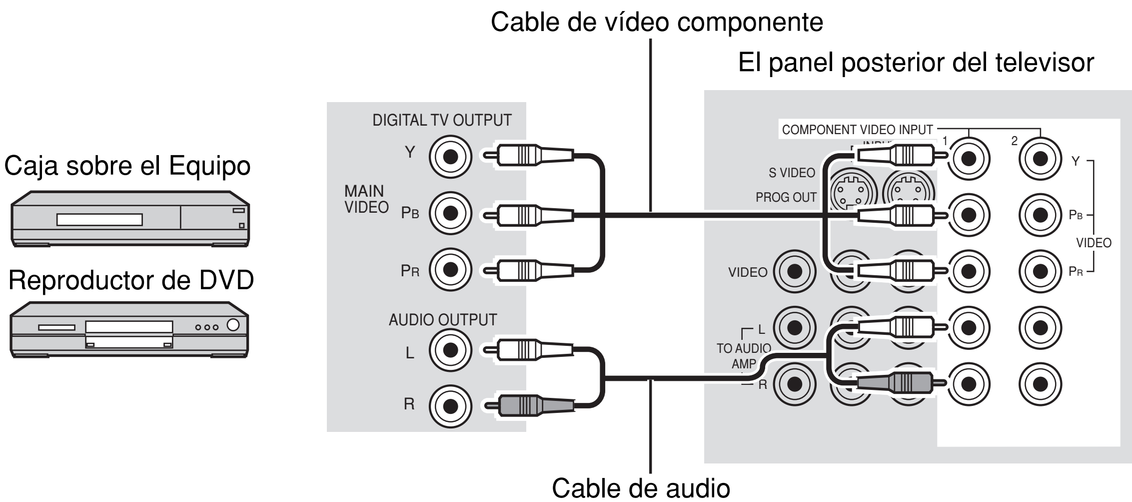
- Cuando disfrute de los programas de TV por cable solamente, conecte el cable de TV por cable a ANTENNA (A). Cuando disfrute de los programas de TV terrestre y de los programas de TV por cable, **conecte el cable de TV por cable por cable a ANTENNA (A) y el cable de la antena terrestre a ANTENNA (B).**
- Seleccione el modo de antena en Input Setup (Programación de entrada) (vea la página 22).



Conexión de TV digital - “Set-Top Box” (DTV-STB) o DVD

Este televisor es capaz de mostrar imágenes de DTV en formato 1080i y 480p cuando se conecta a un receptor de DTV-decodificador (STB). Este televisor utiliza también un doblador de barrido progresivo, el cual barre la imagen de formato NTSC de manera progresiva. Esto le permite no ver las delgadas líneas negras (efecto de persianas) que va relacionado con las imágenes de TV entrelazadas.

- Para ver programas de DTV, conecte el STB a los terminales de entrada de video componente (Y, P_B, P_R) del televisor. Las entradas separadas para las señales compuestas de color proveen la separación de luminancia y color.
- Seleccione la salida de 1080i o 480p del STB.
- Debe disponer en su zona de señales de DTV.
- Utilice un DTV-STB (TV digital/decodificador) o un reproductor DVD de Panasonic.

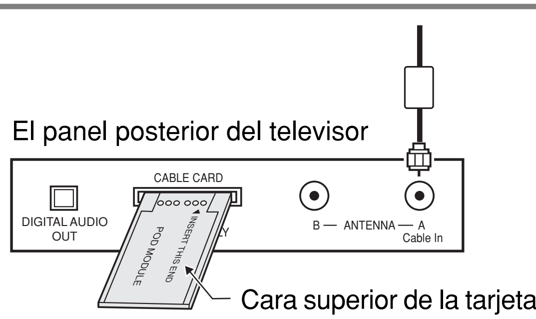


Conexión de CableCARD

CableCARD le permite sintonizar canales de cable digitales y de alta definición mediante la antena de cable. Consulte a su concesionario en lo que se refiere a la disponibilidad de CableCARD.

Procedimiento

1. Conecte la antena de televisión por cable a ANTENNA (A).
2. Encienda el televisor (vea la página 19).
3. Ponga el modo de entrada en TV (vea la página 20).
4. Inserte la CableCARD (con la cara superior indicando hacia usted) en la ranura CABLE CARD de la parte trasera del televisor.
   Siga los mensajes visualizados en la pantalla.



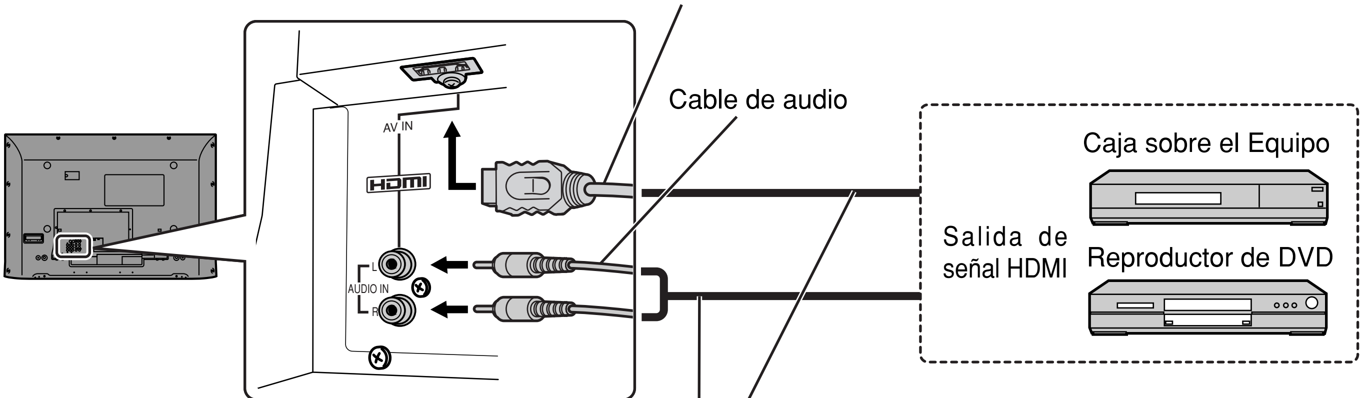
Notas:

- Si nota retrasos en la función del teclado o control remoto cuando utiliza el CableCARD, desenchufe el televisor y vuelva a enchufarlo y pruebe de nuevo con los controles. Si persiste esta condición, llame al Centro de Llamadas del Cliente de Panasonic para obtener más instrucciones.
- No introduzca la tarjeta PCMCIA en la ranura CABLE CARD.

Conexión HDMI

HDMI*1 (interfaz multimedia de alta definición) es la primera interfaz A/V para electrónica de consumidor completamente digital que soporta todos los estándares no comprimidos. El terminal HDMI soporta información de video y audio.
Al terminal de entrada HDMI*1, usted puede conectar un dispositivo electrónico de consumidor que cumpla con la norma EIA/CEA-861/861B*2 como, por ejemplo, un decodificador o un reproductor DVD con terminales de salida HDMI o DVI.

Introduzca en este terminal una fuente de imagen de alta definición con protección digital de copia con alto ancho de banda (HDCP), para poder mostrar las imágenes de alta definición en este televisor en forma digital.



- Si el dispositivo externo tiene una salida DVI solamente, utilice un cable adaptador DVI a HDMI*3 para conectar al terminal HDMI.
- Conecte los cables de audio a los terminales AUDIO IN para HDMI.
- Seleccione el ajuste de audio en HDMI In (vea la página 29).

■ Señal VIDEO compatible

	Número de puntos (H × V)	Frecuencia de barrido vertical (Hz)
1080i	1.920 × 1.080i	59,94/60
480p	720 × 480p	59,94/60
	640 × 480p	59,94/60
480i	720(1.440) × 480i	59,94/60

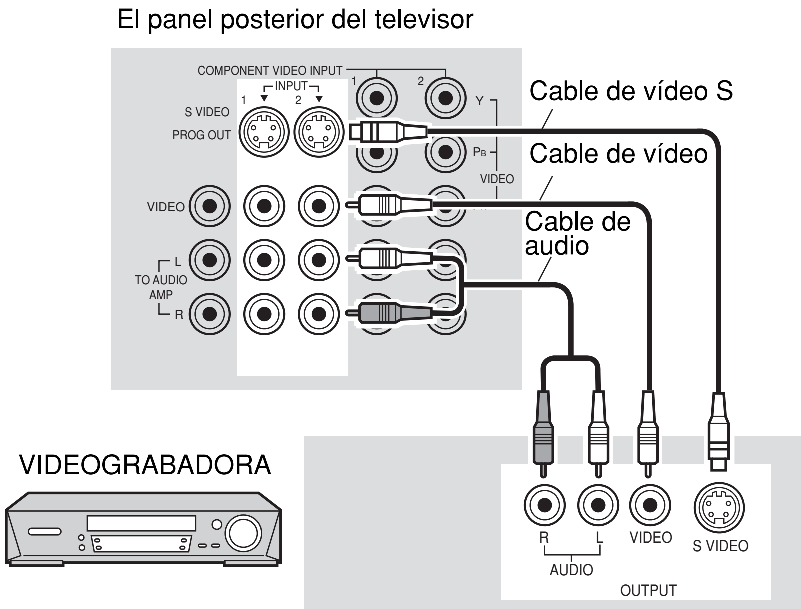
Este terminal de entrada no es para utilización con ordenadores.

■ Frecuencia de muestreo compatible de las señales AUDIO a través de HDMI (L.PCM): 48 kHz / 44,1 kHz / 32 kHz

Notas:
- Este conector HDMI es del Tipo A.
- Si conecta un equipo sin terminal de salida digital, conecte al terminal de entrada COMPONENT VIDEO, S VIDEO o VIDEO del televisor para disfrutar de la señal analógica.
- El terminal DIGITAL IN sólo puede utilizarse con señales de imagen 1080i, 480i o 480p. Ajuste la salida del terminal DIGITAL OUT de la caja digital sobre el aparato a 1080i, 480i o 480p. Para más detalles, consulte el manual de instrucciones de la caja digital sobre el aparato. Si no aparecen imágenes porque su caja digital sobre el aparato no tiene un ajuste de salida de terminal DIGITAL OUT, utilice la entrada de video componente (o la entrada S Video o la entrada Video). En este caso la imagen aparecerá como una señal analógica.

*1. HDMI, el símbolo HDMI y la Interface de Multimedios de Alta Definición son marcas comerciales o marcas registradas de HDMI Licensing LLC.
*2. Los perfiles EIA/CEA-861/861B cumplen con los perfiles para transmisión de video digital sin comprimir/incluyendo la protección del contenido digital de alto ancho de banda.
*3. Cable de conversión HDMI-DVI (TY-SCHO3DH): disponible en el sitio Web de Panasonic (www.panasonic.com). Consulte a su concesionario de productos electrónicos para conocer más detalles.

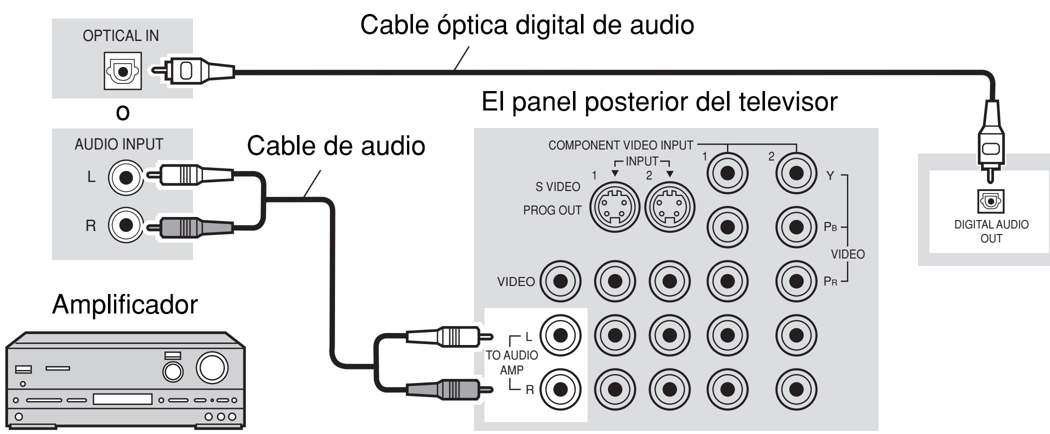
Conexión de una videograbadora



Conexiones de un amplificador (TO AUDIO AMP)

Para una disfrutar de un sonido de teatro en casa completo, un decodificador Dolby Digital* externo y un amplificador multicanal deben ser conectados al conector DIGITAL AUDIO OUT de su TV.

*El sonido envolvente Dolby Digital de 5.1 canales le permite tener sonido de calidad digital. Dolby Digital provee cinco canales discretos de ancho de banda completo para frontal izquierdo, frontal derecho, centro, envolvente izquierdo y envolvente derecho, más un canal de sub-graves LFE (Efecto de Baja Frecuencia).



Procedimiento

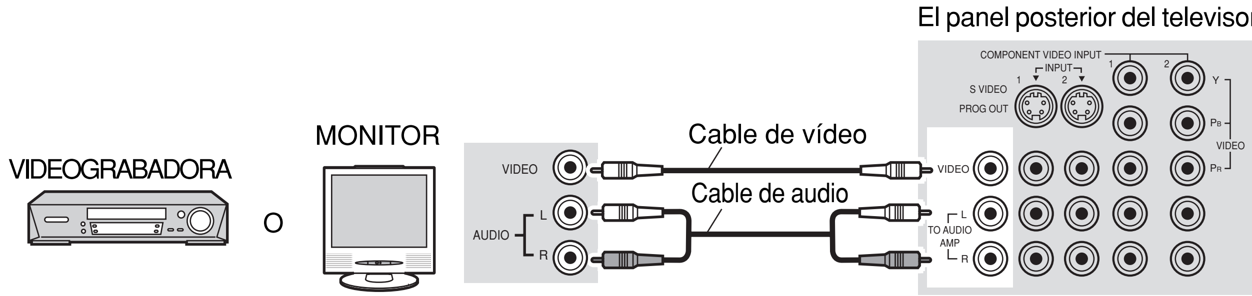
1. Seleccione “Off” (apagado) para Speakers (altavoces) en el menú Audio (vea la página 29).
2. Ajuste el amplificador al nivel deseado.

Notas:

- Los altavoces externos no se pueden conectar directamente a los terminales TO AUDIO AMP.
- Cuando se seleccione un canal ATSC, la salida procedente de la toma DIGITAL AUDIO OUT será Dolby Digital. Cuando se seleccione un canal NTSC, la salida será PCM.

Conexión de salida de programas (PROG OUT)

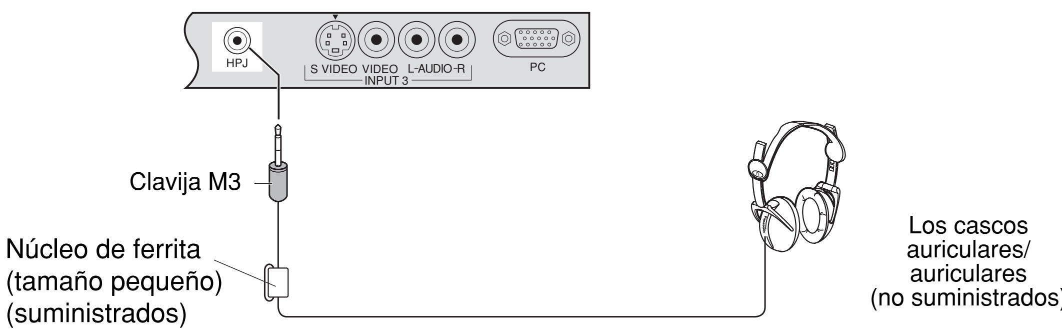
Consulte el manual del equipo opcional para conocer más instrucciones para la grabación y el monitoreo.



Notas:

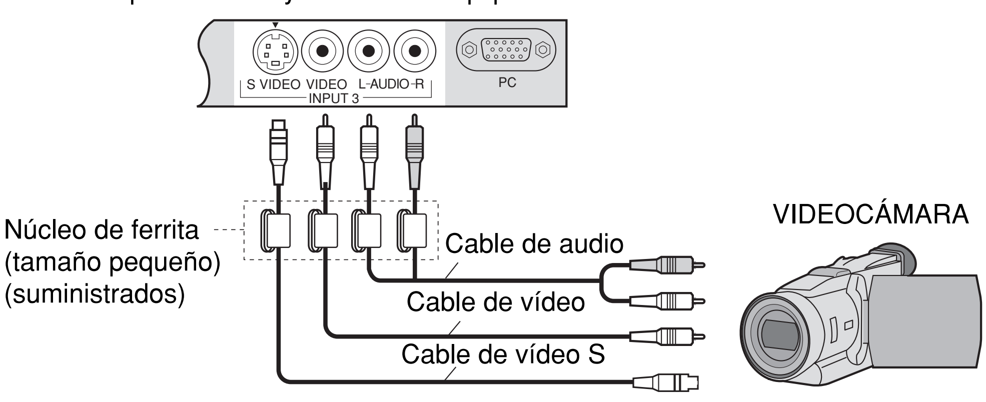
- Cuando se conecte un dispositivo (STB, DVD, etc.) al terminal HDMI (vea la página 15) no saldrá video ni audio debido a restricciones relacionadas con licencias.
- La señal de salida de programa puede no estar disponible cuando se selecciona la entrada COMPONENT (vea la página 20) para la imagen principal durante la operación PIP o SPLIT (vea las páginas 52, 54).
- Cuando reciba señales de canales digitales, todos los formatos digitales serán convertidos en sentido descendente en video NTSC compuesto que saldrá a través de los terminales de salida de programa.
- Algunos programas contienen señales de Macrovision para impedir la grabación en videocaseteras.

Conexión de cascos auriculares / auriculares



Conexión a los terminales AV frontales

Empuje para abrir el panel frontal y conectar el equipo a los terminales frontales de entrada de audio/video.

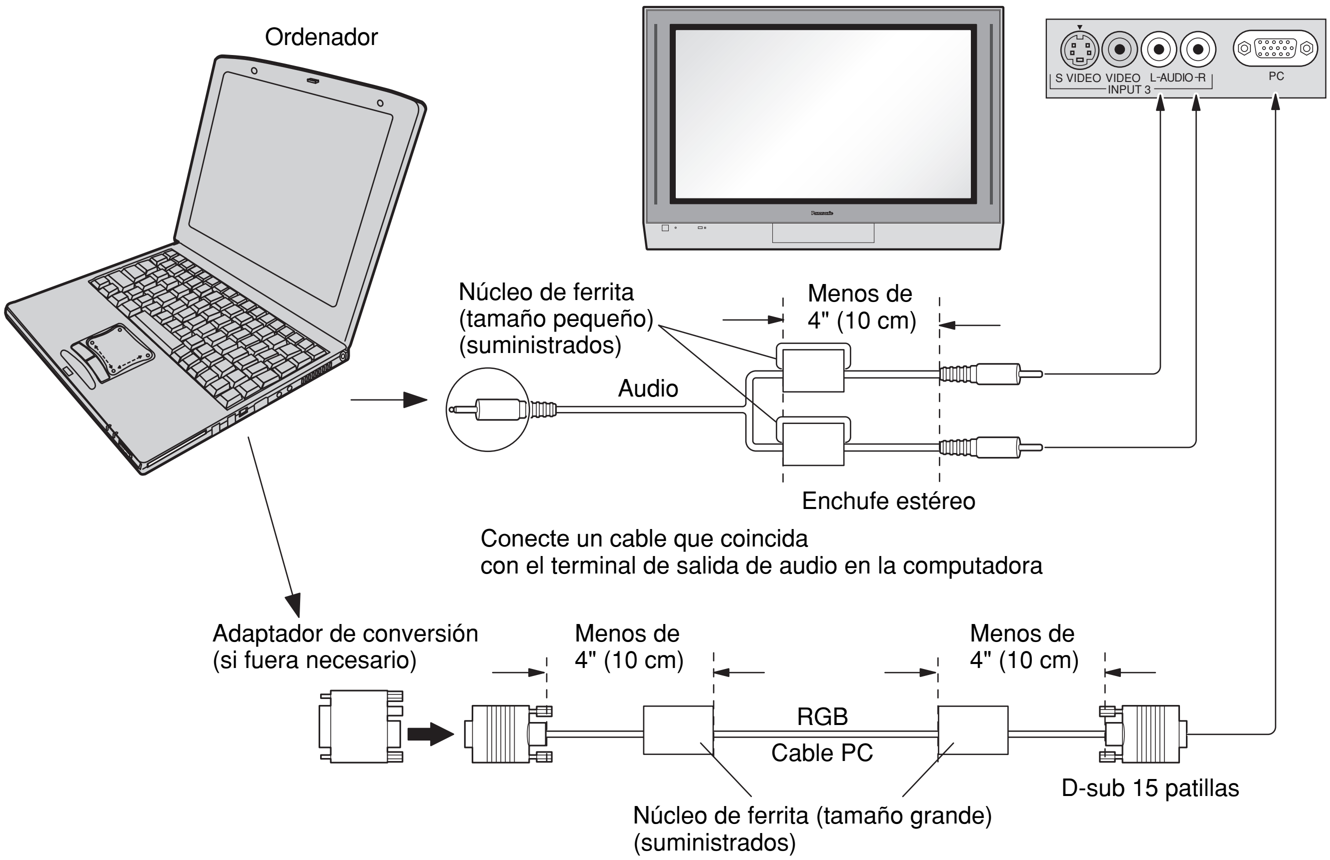


A los terminales de entrada de video también se puede conectar una segunda videocasetera, un reproductor de discos de video, una consola de videojuegos y un equipo DSS. Consulte el manual del equipo opcional para conocer más detalles.

Nota:

La conexión S-VIDEO proporciona una imagen de calidad más alta. Y tiene precedencia sobre otras condiciones VIDEO. Utilice INPUT 3, AUDIO L y R con la conexión S-VIDEO.

Conexión de los terminales de entrada PC



Notas:

(1) Las señales de ordenador que pueden entrar son las que tienen una frecuencia de exploración horizontal de 15 a 110 kHz y una frecuencia de exploración vertical de 48 a 120 Hz. (Sin embargo, las señales que exceden 1.200 líneas no se visualizarán correctamente.)

(2) La máxima resolución:

Modelo	Aspecto	
	4:3	**16:9**
TH-37PX25	768 × 720	1.024 × 720
TH-42PX25	768 × 768	1.024 × 768
TH-50PX25	1.024 × 768	1.366 × 768

Si la resolución de la pantalla supera estos máximos, puede no ser posible mostrar los detalles finos con suficiente nitidez.

(3) Algunos modelos de PC no pueden conectarse a la pantalla de plasma.

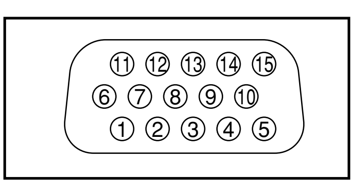
(4) No es necesario un adaptador para con terminal D-sub 15 patillas compatibles con DOS/V.

(5) Esta figura es sólo a modo de ejemplo.

(6) Los equipos y cables adicionales de la figura no se suministran con este equipo.

(7) No ajuste las frecuencias de exploración horizontal y vertical para las señales de PC a niveles que están por encima o por debajo de la gama de frecuencias especificada.

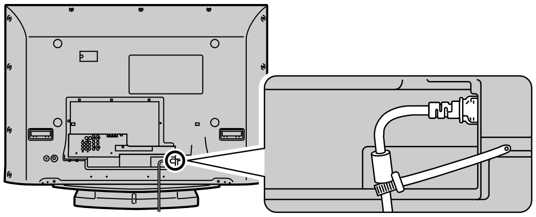
Nombres de las señales del conector D-sub 15 patillas

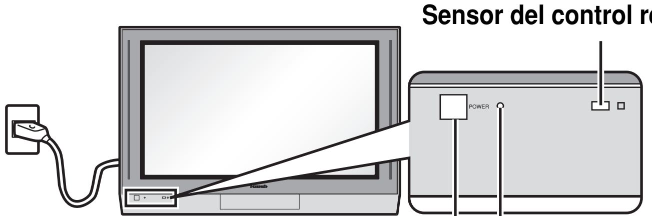


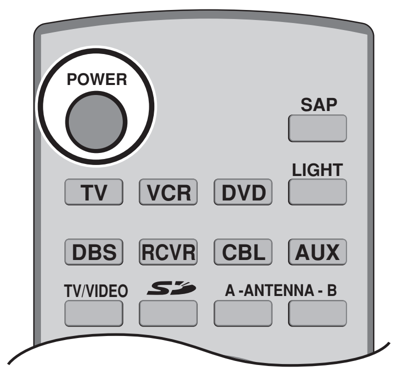
Forma de las patillas para el terminal de entrada PC

N° patilla	Nombre de la señal	N° patilla	Nombre de la señal	N° patilla	Nombre de la señal
①	R	⑥	GND (tierra)	⑪	NC (no conectado)
②	G	⑦	GND (tierra)	⑫	NC
③	B	⑧	GND (tierra)	⑬	HD/SYNC
④	NC (no conectado)	⑨	NC (no conectado)	⑭	VD
⑤	GND (tierra)	⑩	GND (tierra)	⑮	NC

Conexión/desconexión de la alimentación

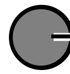






1 Conecte el enchufe del cable de CA al televisor con pantalla de plasma.
- Fije firmemente el enchufe del cable de CA con la abrazadera (vea la página 11).

2 Conecte el enchufe al tomacorriente.

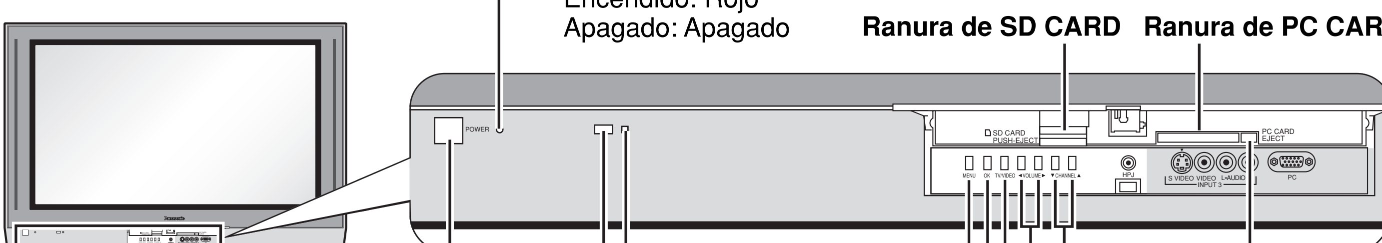
3 

Presiónelo para encender o apagar el televisor.

Nota:
El televisor consumirá algo de energía siempre que el cable de alimentación esté conectado a una toma de corriente.

Ubicación de los controles

Aparato principal



Interruptor de la alimentación
Encendido: Rojo
Apagado: Apagado

Ranura de SD CARD

Ranura de PC CARD

El botón POWER

Sensor del control remoto

Sensor C.A.T.S.
C.A.T.S. (sistema de seguimiento automático de contraste) de plasma
El C.A.T.S. de plasma capta automáticamente las condiciones de la luz ambiental y ajusta el brillo y la gradación en consecuencia para poder optimizar el contraste.
Efectivo cuando el modo de imágenes esté ajustado a Auto (vea la página 26).

MENU
Muestra el menú principal o retrocede un paso en los menús (vea las páginas 24, 57).

OK
Selecciona el menú y la entrada de submenú.

Botón PC CARD EJECT

Selectores de canales

Controles de volumen

TV/VIDEO
Cambia el modo de entrada.

Control remoto iluminado

POWER
Enciende o apaga el televisor.

Botones de selección de modo (vea la página 59)

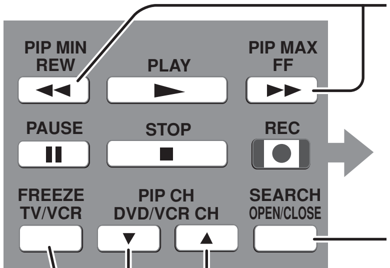
TV:	Televisor
VCR:	Videograbadora
DVD:	DVD
DBS:	Satélite de emisión digital
RCVR:	Receptor/amplificador
CBL:	Televisión por cable
AUX:	Auxiliar

TV/VIDEO
Cambia el modo de entrada.

→ TV → COMPONENT 1 → COMPONENT 2 → HDMI
PC ← VIDEO 3 ← VIDEO 2 ← VIDEO 1 ←

SD
Acceda Photo Viewer (vea la página 48).

R-TUNE
Cambia a un canal visto previamente e introduce los modos.



PIP MIN, PIP MAX
Cambia el tamaño del cuadro PIP (vea la página 52).

Funcionamiento de otro dispositivo
(vea las páginas 63, 64)

SEARCH
Muestra los cuadros de búsqueda durante la operación PIP o SPLIT (vea las páginas 53, 55).

PIP CH
Selecciona el canal durante la operación PIP o SPLIT (vea las páginas 52, 54).

FREEZE
Congela la imagen (vea las páginas 53, 55).

PIP
Operación de imagen en imagen (vea la página 52)
SPLIT
Pantalla dividida (vea la página 54)
MOVE
Mueve el cuadro PIP en la operación de imagen en imagen (vea la página 53).
SWAP
Cambia imágenes en la pantalla dividida y en la operación de imagen en imagen (vea las páginas 52, 54).



SAP
- Canal digital
  Selecciona la pista de audio (si está disponible).

  Audio Track 1 of 1 (English)

- Canal analógico
  Cambia entre los diferentes modos de audio.
  Ej.: Si se recibe estéreo, SAP y mono o si se recibe estéreo y mono solamente:
  → Stereo → SAP → Mono

LIGHT
Enciende los botones del control remoto. El botón seleccionado parpadea cuando está encendida esta luz.

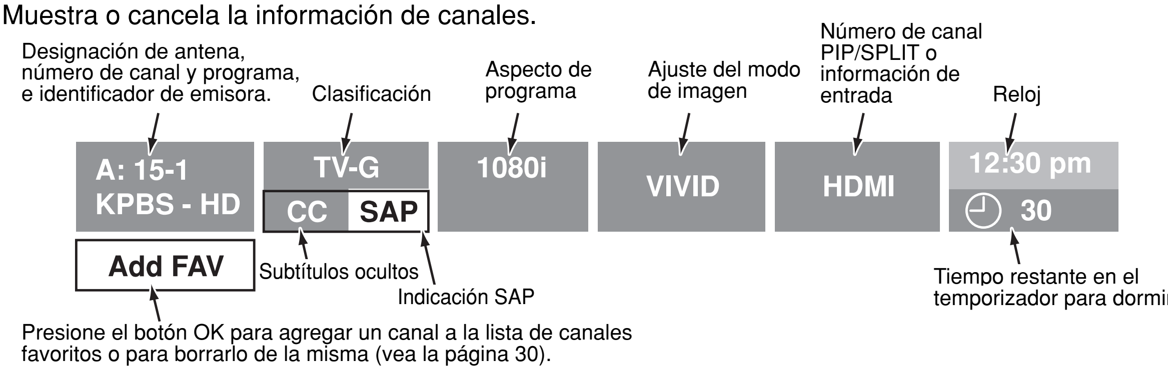
A -ANTENNA - B
Cambia a entrada de antena de RF (A o B).

MUTE
Púlselo para silenciar el sonido. Púlselo de nuevo para cancelar el silenciamiento.

ASPECT
Cambia el aspecto de la pantalla (vea la página 56).

BBE
Apaga o enciende BBE VIVA 3D (vea la página 29).

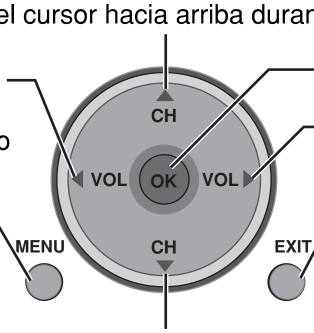
RECALL
Muestra o cancela la información de canales.



▲ **CH**: Cambia al siguiente canal superior
▲ : Mueve el cursor hacia arriba durante el modo del menú.

◄ **VOL** : Reduce el volumen.
◄ : Mueve el cursor hacia la izquierda durante el modo del menú.

MENU
Muestra el menú principal o retrocede un paso en los menús (vea las páginas 24, 57).



Selecciona el menú y la entrada de submenú.

VOL ►: Aumenta el volumen
► : Mueve el cursor hacia la derecha durante el modo del menú.

EXIT
Salida los menús.

▼ **CH**: Cambia al siguiente canal inferior
▼ : Mueve el cursor hacia abajo durante el modo del menú.

Botones de selección directa de números de programas

PROG —: Cuando se sintonicen canales digitales, presione el botón para introducir el número menor en un número de canal complejo.
- Para introducir el número del canal
  Ej.: CH 15-1: [1]→ [5]→ [-]→ [1]→ [OK]

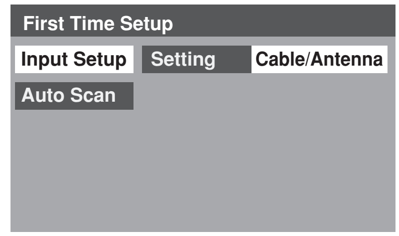
First Time Setup (Programación inicial)

Para su conveniencia, el menú First Time Setup (Programación inicial) se mostrará en la pantalla cuando se encienda el televisor por primera vez. Si lo necesita, siga los menús y los procedimientos mostrados en la pantalla para programar las funciones. También puede hacer ajustes en el menú Setup (vea las páginas 36, 37).

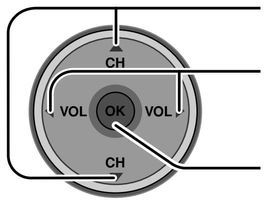


Input Setup (Programación de entrada)

Seleccione la configuración de la entrada de RF dependiendo de la fuente de señales.

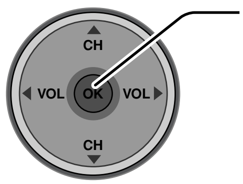


1



Presione para seleccionar Input Setup (Programación de entrada).
Presione para seleccionar Cable only (Cable solamente), Cable/Antenna (Cable/Antena) o Antenna only (Antena solamente).
Presione para introducir su elección.

2

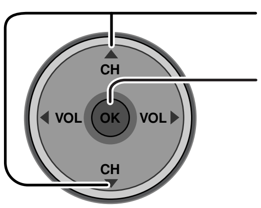


Presione para empezar Auto Scan (Exploración automática).
Todos los canales disponibles con una señal se programarán en la memoria.

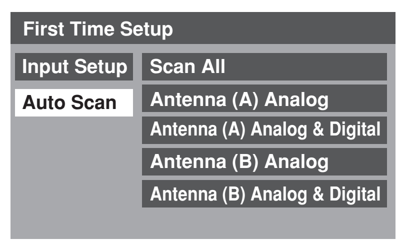
Auto Scan (Exploración automática)

Esta función le permite realizar la exploración automática de canales selectivamente. Puede explorar todos los canales, los analógicos solamente o los analógicos y digitales.

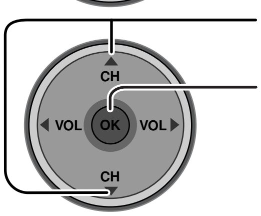
1



Presione para seleccionar Auto Scan (Exploración automática).
Presione para introducir el campo de submenús.



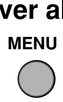
2



Presione para seleccionar el submenú.

Presione para empezar Auto Scan (Exploración automática).
Después de completarse Auto Scan (Exploración automática), el televisor sintoniza el primer canal encontrado durante Auto Scan (Exploración automática).

Para volver al menú anterior

Presione  .

Para salir de la pantalla de menú

Presione  .

Notas:
- Si se presiona el botón EXIT en cualquier momento durante Auto Scan (Exploración automática), Auto Scan (Exploración automática) se cancelará y el televisor volverá a el menú First Time Setup (Programación inicial).
- Si se encuentra presente un CableCARD durante First Time Setup (Programación inicial) y Antenna (A) (Antena A) está puesta en Cable, Antenna (A) (Antena A) no será explorada debido a que el CableCARD provee el mapa de canales.

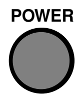
Para ver programas de TV

VHF y UHF

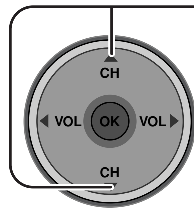


1 

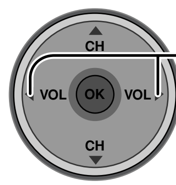
Presione para controlar el televisor con el control remoto.

2 

Presione para encender el televisor.

3 

Presione para seleccionar el canal deseado.

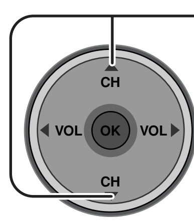
4 

Seleccione el nivel del volumen deseado.

Notas:
- El número del canal y el nivel del volumen se fijan incluso después de apagar el televisor.
- El consumo de energía y el aullido del sonido se pueden reducir si se baja el nivel del volumen.

Televisión por cable

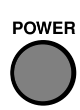
Asegúrese de haber completado el registro con el proveedor de TV por cable y la conexión del equipo.

1 

Seleccione el canal de TV 3 ó 4.

2 

Presione para controlar el sintonizador de cable con el mando a distancia.

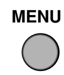
3 

Presione para encender el sintonizador de cable.
- Apunte el control remoto hacia el sintonizador de cable.

Notas:
- El número de código del control remoto se establece para los productos Panasonic.
- Para controlar el producto de otro fabricante (vea las páginas 59 - 64).

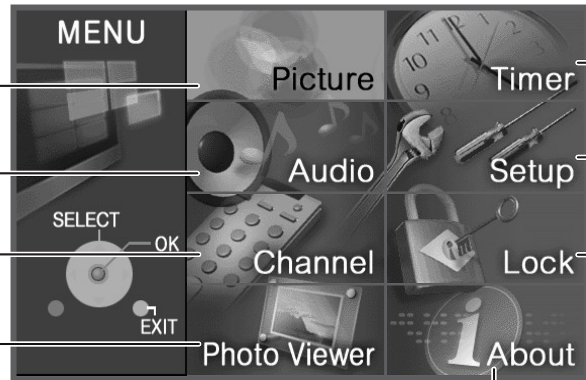
Navegación por menús

1



Presione para visualizar el menú principal.





Picture (Imagen)
(vea la página 26)

Audio
(vea la página 28)

Channel (Canal)
(vea la página 30)

Photo Viewer (Modo de previsualización)
(vea la página 46)

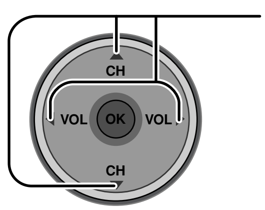
Timer (Temporizador)
(vea la página 33)

Setup (Programación)
(vea la página 36)

Lock (Bloqueo)
(vea la página 42)

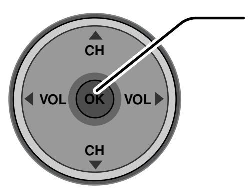
About (Acerca de)
La pantalla About (Acerca de) muestra información diversa acerca del televisor. Prepare esta información cuando llame al centro de asistencia al cliente.

2



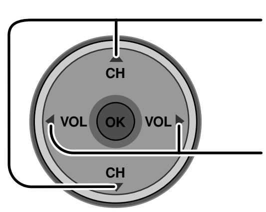
Presione para seleccionar el menú.

3



Presione para introducir el campo de submenú.

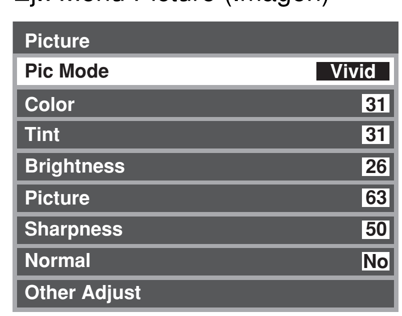
4



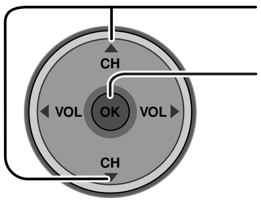
Presione para seleccionar el submenú.

Presione para ajustar el submenú.

Ej.: Menú Picture (Imagen)



1 [Para seleccionar el submenú Other Adjust (Otro ajuste)]

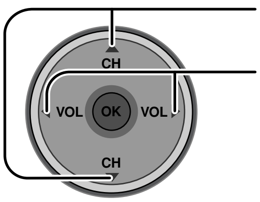


Presione para seleccionar Other Adjust (Otro ajuste).

Presione para visualizar el submenú.

Other Adjust	
Color Temp	Cool
Natural Color	On
Video NR	Off
3D Y/C Filter	Off
Color Matrix	HD
Freeze	Split

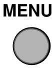
2



Presione para seleccionar el submenú.

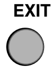
Presione para seleccionar o activar el submenú.

Para volver a la pantalla anterior



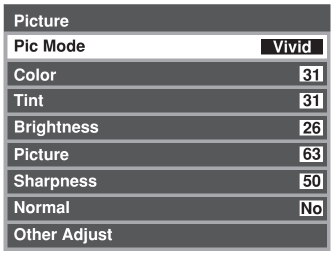
Presione para volver.

Para salir de los menús



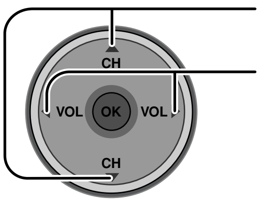
Presione para volver a la imagen normal.

Picture (Imagen)



Pic Mode (Modo de imagen)

Le permite elegir los modos de imagen preestablecidos más apropiados para el programa que usted está viendo. Esta función también afecta al ajuste Color Temp (Temperatura del color) (vea la página 27).



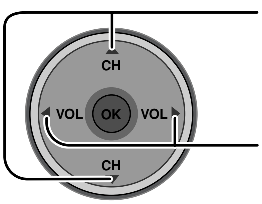
Presione para seleccionar Pic Mode.

Presione para seleccionar el modo de imagen.

- Vivid (Vívido) (predeterminado) : Provee un contraste y una nitidez de imagen realzados para ver programas en una habitación bien iluminada.
- Standard (Estándar) : Recomendado para ver bajo condiciones normales en una habitación con iluminación atenuada.
- Cinema (Cine) : Para ver películas en una habitación oscura. Proporciona una imagen suave, como la del cine.
- Auto : Capta automáticamente las condiciones de la luz ambiental y ajusta el brillo y la gradación en consecuencia para poder optimizar el contraste.

Nota:
Cada modo tiene sus propios ajustes de imagen [Color, Tint (Matiz), Brightness (Brillo), Picture (Imagen) y Sharpness (Nitidez)].

Color / Tint (Matiz) / Brightness (Brillo) / Picture (Imagen) / Sharpness (Nitidez) / Normal



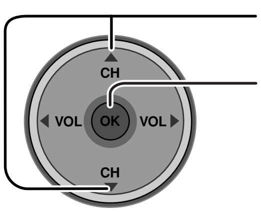
Presione para seleccionar el submenú.

Presione para ajustar el submenú.

Elemento	Explicaciones
Color	Ajusta la intensidad de color deseada.
Tint	Ajusta los tonos naturales de la piel.
Brightness	Ajusta las partes oscuras de la imagen.
Picture	Ajusta las partes blancas de la imagen.
Sharpness	Ajusta la calidad de los detalles.
Normal	Repone los ajustes de imagen a los ajustes predeterminados en fábrica.

Other Adjust (Otro ajuste)

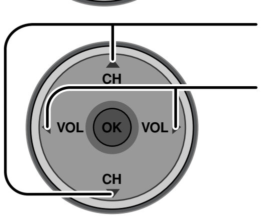
1



Presione para seleccionar Other Adjust (Otro ajuste).

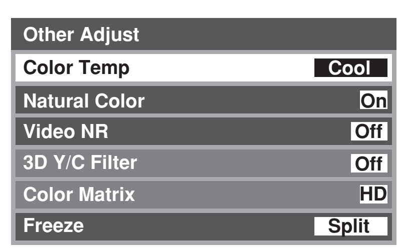
Presione para visualizar el submenú.

2

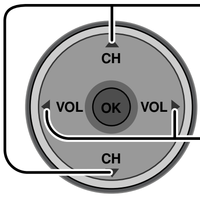


Presione para seleccionar el submenú.

Presione para seleccionar o activar el submenú.



■ Color Temp (Temperatura del color) / Natural Color (Color natural) / Video NR (Reducción de ruido de video) / 3D Y/C Filter (Filtro Y/C 3D)



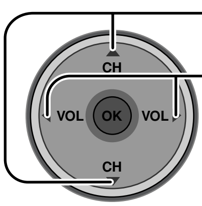
Presione para seleccionar el submenú.

Presione para ajustar o activar el submenú.

Elemento	Explicaciones
Color Temp (temperature)	Para aumentar o disminuir los colores Warm (rojo) y Cool (azul) según las preferencias personales.
Natural Color	Para aumentar la gama de reproducción de colores con una gradación de colores natural y tonos sumamente delicados.
Video NR	Reduce el ruido en el canal, comúnmente llamado efecto de nieve. Permanece en Off cuando se recibe una señal intensa.
3D Y/C Filter	Minimiza el ruido y la diafotía cromática de la imagen.

■ Color Matrix

Muestra imágenes 480p con un color natural procedentes de adaptadores de equipos digitales conectados a los terminales COMPONENT VIDEO INPUT (Y, P_B, P_R).
Seleccione HD o SD para ajustar automáticamente los parámetros del color para HD (alta definición) y SD (definición estándar).



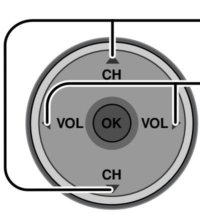
Presione para seleccionar Color Matrix.

Presione para seleccionar SD o HD.
- SD : Cuando la señal de entrada es de un sistema de TV normal (NTSC).
- HD : Cuando la señal de entrada es de un sistema de alta definición (ATSC).

Notas:
- Esta función sólo se encuentra disponible con imágenes 480p, y no se encuentra disponible con programas de televisores (NTSC) convencionales.
- Cuando vea un formato de señal DTV que no sea estándar, usted podrá cambiar manualmente los parámetros del color para obtener la mejor calidad de la imagen.

■ Freeze (Congelar)

Esta función se utiliza para congelar la imagen principal y mostrarla en un cuadro PIP o SPLIT, cuando se presiona el botón **FREEZE** del control remoto. Presione de nuevo **FREEZE** para borrar el cuadro (vea las páginas 53, 55).



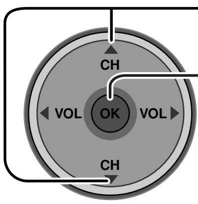
Presione para seleccionar Freeze.

Presione para seleccionar SPLIT o PIP.

Audio



Bass (Graves) / Treble (Agudos) / Balance / Normal



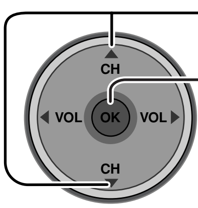
Presione para seleccionar el submenú.

Presione para ajustar o activar el submenú.

Elemento	Explicaciones
Bass	Aumenta o disminuye la respuesta de los graves.
Treble	Aumenta o disminuye la respuesta de los agudos.
Balance	Realza el volumen de los altavoces izquierdo / derecho.
Normal	Repone los ajustes de Graves, Agudos y a Balance los ajustes predeterminados en la fábrica.

Other Adjust (Otro ajuste)

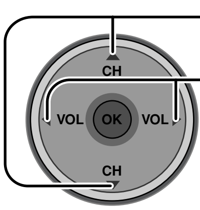
1



Presione para seleccionar Other Adjust (Otro ajuste).

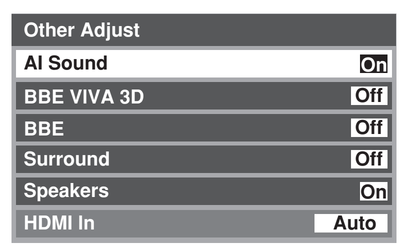
Presione para visualizar el submenú.

2



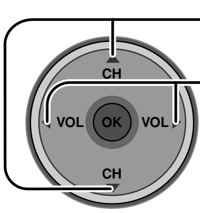
Presione para seleccionar el submenú.

Presione para seleccionar o activar el submenú.



■ AI Sound (Sonido IA)

Iguala los niveles de volumen generales en todos los canales. AI Sound (Sonido IA) no se encuentra disponible en el modo de entrada VIDEO (vea la página 20).



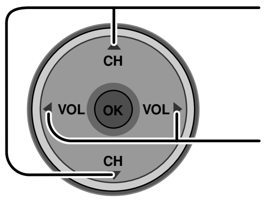
Presione para seleccionar AI Sound.

Presione para seleccionar On (Encendido) u Off (Apagado).

BBE VIVA 3D / BBE

BBE VIVA 3D BBE VIVA 3D provee una imagen precisa natural 3D con sonido hi-fi. La claridad del sonido es mejorada por BBE mientras el ancho, profundidad y altura de la imagen del sonido 3D BBE. BBE VIVA 3D es compatible con toda la programación de TV incluyendo noticias, musica, dramas, peliculas y deportes así como también juegos electronicos. BBE VIVA 3D mejora el efecto del sonido envolvente, mientras mantiene la claridad del dialogo.

BBE La tecnología de sonido BBE mejora el entendimiento de los discursos y restaura el rango dinámico de pasajes musicales para proveer un sonido natural sobresaliente.



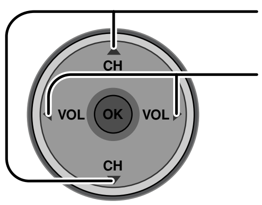
Presione para seleccionar BBE VIVA 3D u BBE.

Presione para seleccionar On (Encendido) u Off (Apagado).

Notas:
- Cuando “BBE VIVA 3D” se pone en “On (Encendido)”, puesta “BBE” y “Surround” se fija en “On (Encendido)”.
- Cuando “BBE VIVA 3D” se pone en “Off (Apagado)”, “BBE” y “Surround” se puede fijar individualmente.

Surround (Sonido envolvente)

Mejora la respuesta de audio cuando se escucha sonido estéreo.



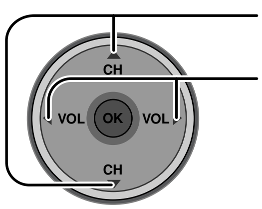
Presione para seleccionar Surround.

Presione para seleccionar On (Encendido) u Off (Apagado).
- On (Encendido) : Para audio Estéreo.
- Off (Apagado) : Para audio Mono.

Nota:
Esta función se efectiva cuando BBE VIVA 3D esté ajustado a Off (apagado).

Speakers (Altavoces)

Esta función se utiliza para encender o apagar los altavoces del televisor (vea la página 16, Conexiones de un amplificador).

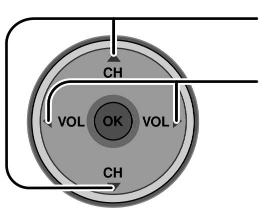


Presione para seleccionar Speakers.

Presione para seleccionar On (Encendido) u Off (Apagado).
- On (Encendido) : Los altavoces funcionan normalmente.
- Off (Apagado) : Los altavoces no funcionan.

HDMI In (Entrada HDMI)

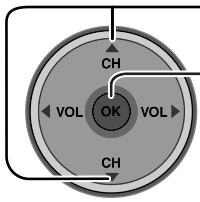
Cuando se utiliza HDMI (vea la página 15), esta función le permitirá cambiar entre entrada analógica y entrada digital.



Presione para seleccionar HDMI In.

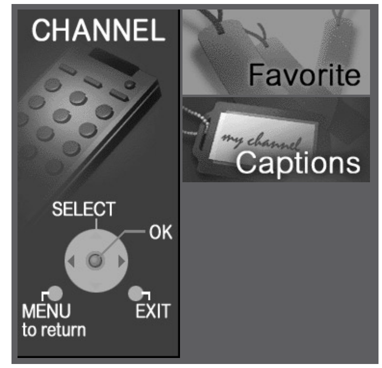
Presione para seleccionar el modo.
- Auto (Automático) : Selecciona automáticamente la señal analógica / digital.
- Digital : Entrada digital solamente.
- Analog (Analógica) : Entrada analógica solamente.

Channel (Canal)



Presione para seleccionar el menú.

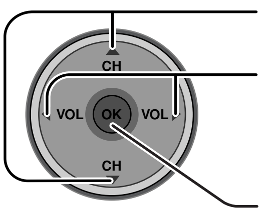
Presione para visualizar el submenú.



Favorite (Favorito)

Le permite crear una lista de canales favoritos desde Antenna (A) (Antena A) o Antenna (B) (Antena B).

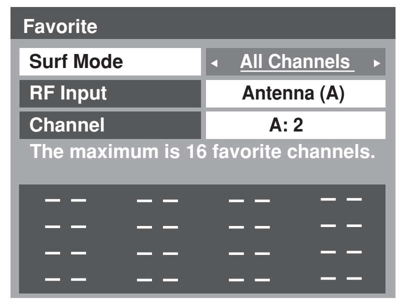
■ Surf Mode (Modo surf)



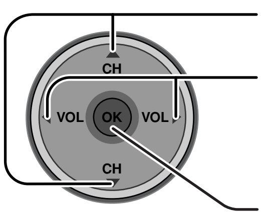
Presione para seleccionar Surf Mode.

Presione para seleccionar Favorites (Favorito) o All Channels (Todos los canales).

Presione para introducir su elección.



■ RF Input (Entrada de RF)



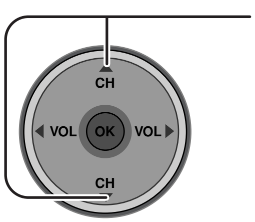
Presione para seleccionar RF Input.

Presione para seleccionar Antenna (A) (Antena A) o Antenna (B) (Antena B).

Presione para introducir su elección.

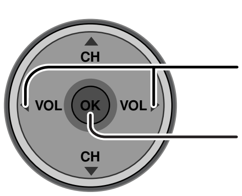
■ Channel (Canal)

1



Presione para seleccionar Channel.

2



Presione para seleccionar el canal.

Presione para agregar un canal.
Para borrar un canal, presione de nuevo mientras se muestra el número del canal.

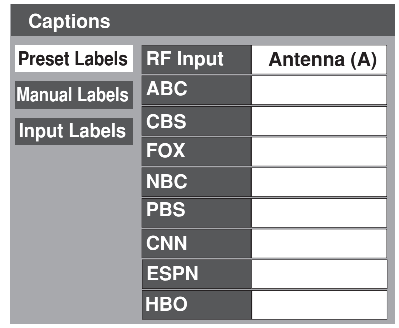
- Repita el paso 2 para seleccionar un máximo de 16 canales favoritos.

Captions (Subtítulos)

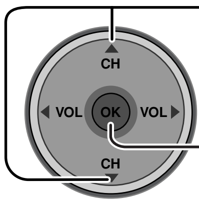
Para introducir etiquetas manuales y prefijadas en las emisoras deseadas. También para introducir etiquetas de entrada en las entradas de video.

■ Preset Labels (Etiquetas prefijadas)

Para introducir números de canales para emisoras de TV populares.



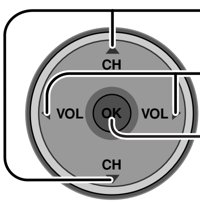
1



Presione para seleccionar Preset Labels.

Presione para introducir el campo de submenús.

2

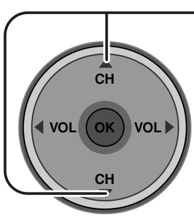


Presione para seleccionar RF Input.

Presione para seleccionar Antenna (A) (Antena A) o Antenna (B) (Antena B).

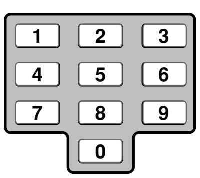
Presione para introducir su elección.

3



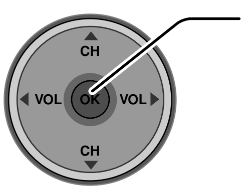
Presione para seleccionar los subtítulos prefijados deseados.

4



Seleccione el canal (consulte su guía de TV local).

5

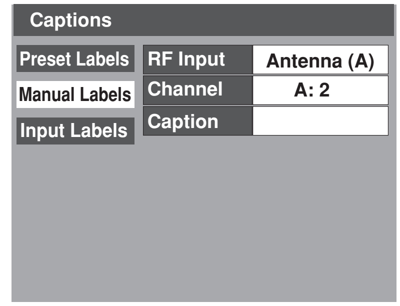


Presione para introducir su elección.
Para eliminar un número de canal, mientras se encuentra resaltado, presione repetidamente ◀ hasta eliminar todos los números, y luego presione **OK**.

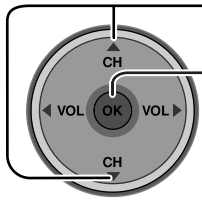
Nota:
Sólo se pueden seleccionar entradas con señales.

■ Manual Labels (Etiquetas manuales)

Para introducir números y subtítulos manualmente.



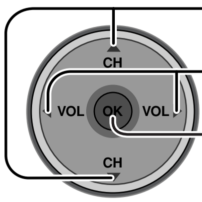
1



Presione para seleccionar Manual Labels.

Presione para introducir el campo de submenús.

2

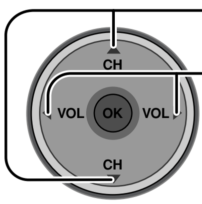


Presione para seleccionar RF Input (la entrada de RF).

Presione para seleccionar Antenna (A) (Antena A) o Antenna (B) (Antena B).

Presione para introducir su elección.

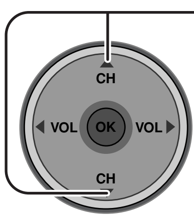
3



Presione para seleccionar Channel (Canal).

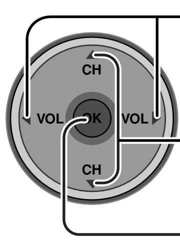
Presione para seleccionar el número de canal disponible.

4



Presione para seleccionar Caption (Subtítulos).

5



Presione para seleccionar la posición del carácter.

Presione para seleccionar el carácter (consulte su guía de TV local).

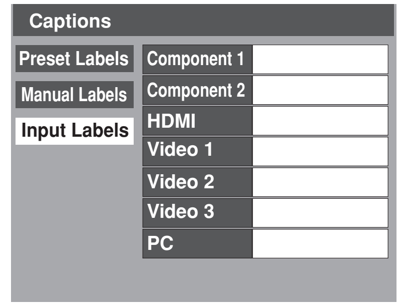
- Repita hasta añadir todos los caracteres. Se puede añadir un máximo de 7 caracteres por cada canal.
- Para eliminar Channel Caption (Subtítulos de canales), presione hasta que no se muestren caracteres.

Presione para introducir su elección.

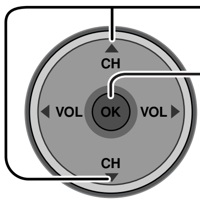
Nota: Sólo se pueden seleccionar entradas con señales.

■ Input Labels (Etiquetas de entrada)

Para etiquetar las conexiones de entrada de video para la visualización en pantalla.



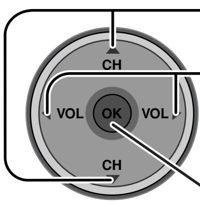
1



Presione para seleccionar Input Labels.

Presione para introducir el campo de submenús.

2



Presione para seleccionar la entrada de video.

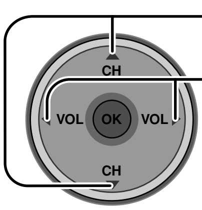
Presione para seleccionar la etiqueta de video prefijada.
- Para eliminar las etiquetas de entrada, presione hasta que no se muestren etiquetas, y luego presione el botón **OK** para introducción su elección.
- Para saltar la entrada, seleccione “**SKIP**”. La entrada se omitirá cuando presione **TV**/**VIDEO**.

Presione para introducir su elección.

Timer (Temporizador)

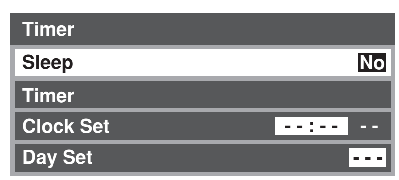
Ponga la hora el Clock Set (Puesta en hora) (vea la página 35) antes de poner el Timer (Temporizador).

Sleep (Dormir)



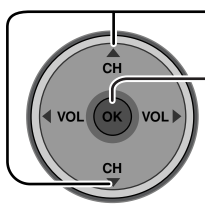
Presione para seleccionar Sleep.

Presione para seleccionar la hora para dormir (No, 30, 60 o 90).
- Para apagar el temporizador, seleccione No.
- Para confirmar el tiempo restante, presione el botón RECALL (vea la página 21).



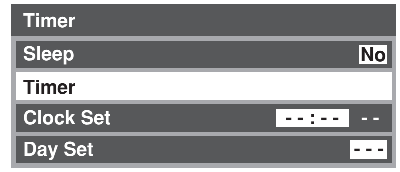
Timer (Temporizador)

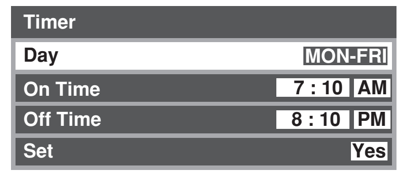
Ponga el temporizador para encender y apagar el televisor a las horas seleccionadas y en el día seleccionado.



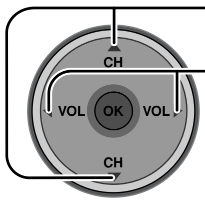
Presione para seleccionar Timer (Temporizador).

Presione para introducir el submenú de Timer.





■ Day (Día)

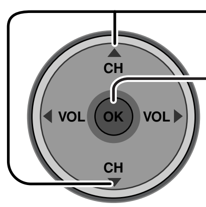


Presione para seleccionar Day (Día).

Presione para seleccionar el ajuste del día apropiado.

■ On Time (Hora de encendido) / Off Time (Hora de apagado)

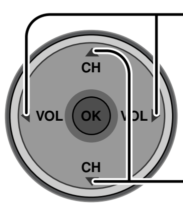
1



Presione para seleccionar On Time o Off Time.

Presione para introducir el campo de la hora.

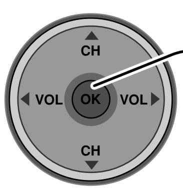
2



Presione para seleccionar la posición de las horas (AM o PM) o los minutos.

Presione para poner la hora (AM o PM) y los minutos.

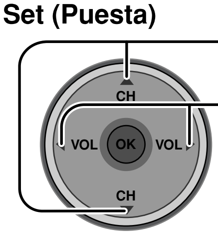
3



Presione para introducir su elección.

Notas:
- El televisor se apaga automáticamente después de pasar 90 minutos cuando se enciende mediante el temporizador. Esto se cancelará si se selecciona Off Time (Hora de apagado) o se presiona una tecla.
- Cuando el suministro eléctrico del televisor se altere debido a un corte en el suministro o a un problema similar, el temporizador de apagado se desactivará y el televisor se pondrá en el modo de espera incluso después de restablecerse el suministro eléctrico.

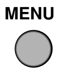
■ Set (Puesta)



Presione para seleccionar Set (Puesta).

Presione para seleccionar Yes (Sí) o No.

Para volver a la pantalla anterior



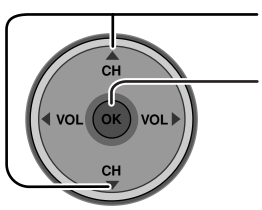
Presione para volver.

Para activar el temporizador

Seleccione el canal y apague el televisor.

Clock Set (Puesta del reloj)

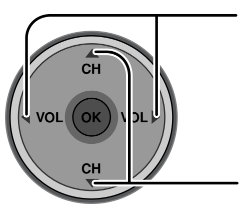
1



Presione para seleccionar Clock Set.

Presione para introducir el campo de la hora.

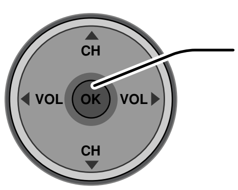
2



Presione para seleccionar la posición de las horas (AM o PM) o los minutos.

Presione para poner la hora (AM o PM) y los minutos.

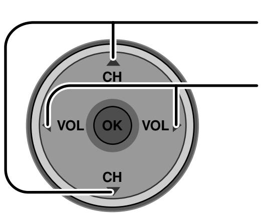
3



Presione para introducir su elección.

Day Set (Puesta del día)

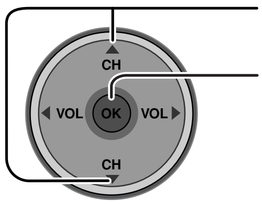
Ponga el día de la semana.



Presione para seleccionar Day Set.

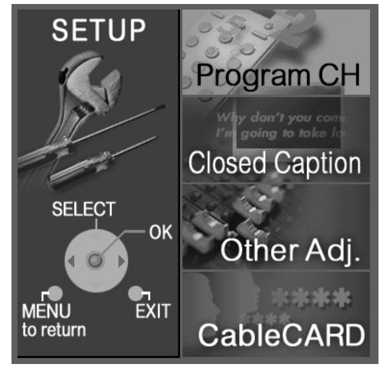
Presione para seleccionar el día de la semana.

Setup (Programación)



Presione para seleccionar el menú.

Presione para visualizar el submenú.

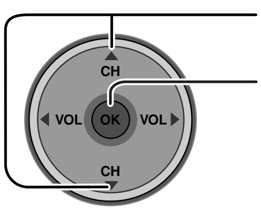


Program CH (Canal de programa)

■ Input Setup (Programación de entrada)

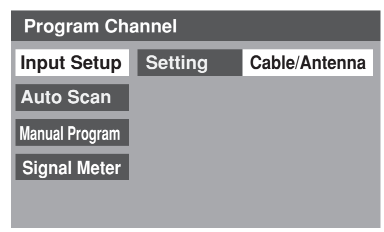
Le permite especificar el modo de antena [Cable only (Cable solamente), Cable/Antenna (Cable/Antena) o Antenna only (Antena solamente)].

1

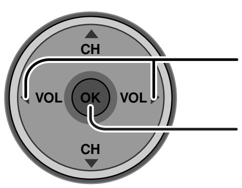


Presione para seleccionar Input Setup.

Presione para introducir el campo de submenús.



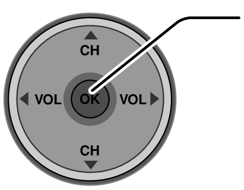
2



Presione para seleccionar el modo de antena.

Presione para introducir su elección.
• Aparece el mensaje de confirmación.

3

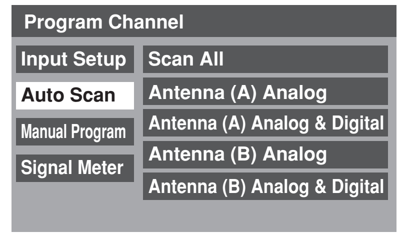


Presione para empezar Auto Scan (Exploración automática).

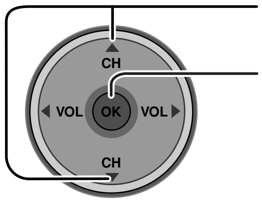
Notas:
- Auto Scan (Exploración automática) es necesario para cuando usted selecciona la señal de entrada por primera vez o siempre que usted cambia la configuración de la antena.
- Si no está insertado el CableCARD, Auto Scan (Exploración automática) realizará Scan All (Explorar todo).
- Cuando esté insertado el CableCARD y se seleccione Cable only (Cable solamente), Auto Scan (Exploración automática) se omitirá.
- Cuando esté insertado el CableCARD y se seleccione Cable/Antenna (Cable/Antena), se realizará Antenna (B) Analog & Digital Auto Scan [Exploración automática analógica y digital para antena (B)].
- Para poder seleccionar manualmente Antenna B (Antena B) desde el control remoto, tendrá que realizar en primer lugar Auto Scan (Exploración automática).

Auto Scan (Exploración automática)

Explora automáticamente todos los canales disponibles Antenna (A) Analog [Antena (A) analógica], Antenna (A) Analog & Digital [Antena (A) analógica y digital], Antenna (B) Analog [Antena (B) analógica] y Antenna (B) Analog & Digital [Antena (B) analógica y digital].



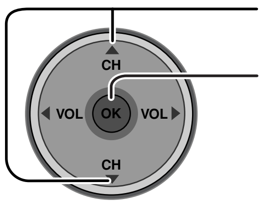
1



Presione para seleccionar Auto Scan.

Presione para introducir el campo de submenús.

2

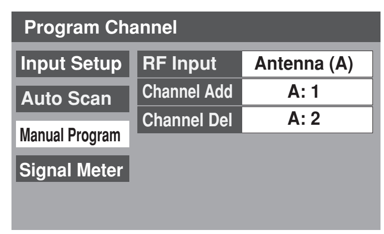


Presione para seleccionar el submenú.

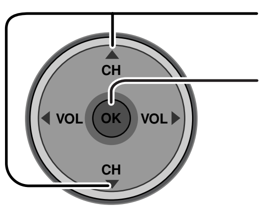
Presione para seleccionar Auto Scan.
- Después de completarse Auto Scan (Exploración automática), presione **MENU** para volver a la pantalla anterior.

Manual Program (Programa manual)

Para añadir o borrar manualmente canales de las listas de canales (A/B).



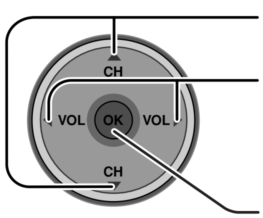
1



Presione para seleccionar Manual Program.

Presione para introducir el campo de submenús.

2

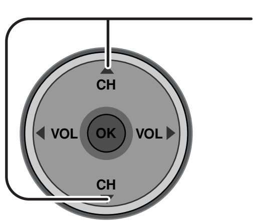


Presione para seleccionar RF Input.

Presione para seleccionar Antenna (A) (Antena A) o Antenna (B) (Antena B).

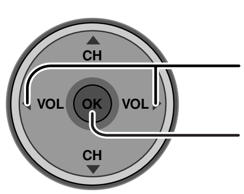
Presione para introducir su elección.

3



Presione para seleccionar Channel Add (Añadir canales) o Channel Del (Eliminar canales).

4



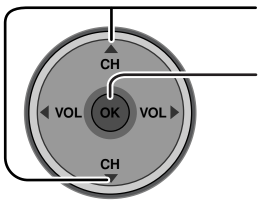
Presione para seleccionar el canal deseado.

Presione para añadir o eliminar el canal.

Signal Meter (Medidor de señal)

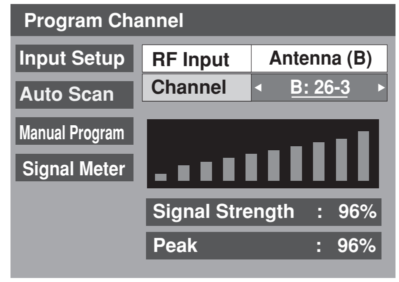
(Para canales digitales solamente)
Muestra la intensidad de la señal del canal digital ATSC en Antenna (A) (Antena A) o Antenna (B) (Antena B).

1

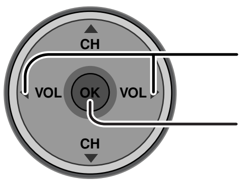


Presione para seleccionar Signal Meter.

Presione para introducir el campo de submenús.



2



Presione para seleccionar el canal deseado.

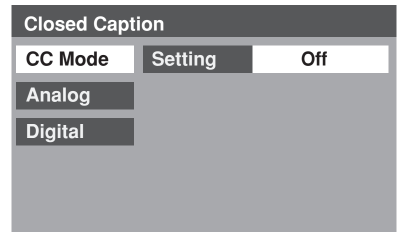
Presione para mostrar Signal Strength (Intensidad de señal).
- El color de la barra de señal indica generalmente la intensidad de la señal recibida.
  Verde - Señal adecuada para tener una buena recepción.
  Amarillo - Señal de mala intensidad.
  Rojo - Señal de intensidad muy pobre.

Closed Caption (Subtítulos ocultos)

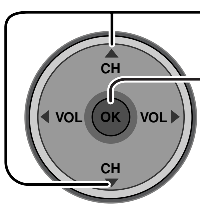
El televisor tiene incorporado un decodificador capaz de proveer información visual correspondiente al sonido. El programa deberá tener Closed Captioning (Subtítulos ocultos) (CC) para que el televisor pueda mostrarlo.

■ CC Mode (Modo CC)

Activa Closed Captioning (Subtítulos ocultos) cuando se presiona el botón MUTE.



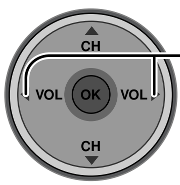
1



Presione para seleccionar CC Mode.

Presione para introducir el campo de submenús.

2



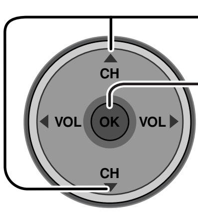
Presione para seleccionar la opción.
- Off (Apagado)
- On : Para mostrar Closed Caption (Subtítulos ocultos)
- On Mute : Para mostrar Closed Caption (Subtítulos ocultos) cuando se silencia el sonido.

Notas:
- Los subtítulos ocultos no se muestran cuando usted utiliza la conexión HDMI.
- Cuando se muestre o grabe un programa de canal analógico en un equipo conectado, seleccione la opción On/Off (Encendido/Apagado) de títulos ocultos en el equipo conectado. CC Mode del televisor no tiene ningún efecto con la señal de salida del canal analógico.
- Cuando se muestra o se graba un programa de canal digital en un equipo conectado, ponga CC Mode del televisor en Off (Apagado) y seleccione la opción On/Off (Encendido/Apagado) en el equipo conectado. Los subtítulos ocultos digitales se superpondrán si la opción de los subtítulos ocultos es On (encendido) en el televisor y en el equipo conectado.

■ Analog (Analógico)

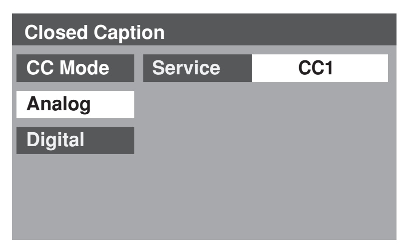
Le permite elegir el servicio de subtítulos ocultos de una emisión Analógica.

1

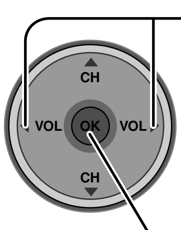


Presione para seleccionar Analog.

Presione para introducir el campo de submenús.



2

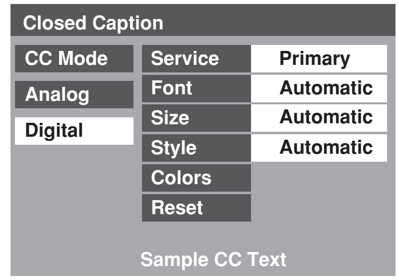


Presione para seleccionar la opción.
- CC1 : Para la información relacionada con video que puede mostrarse (hasta 4 líneas de texto en la pantalla, donde no interfiere con las partes importantes de la imagen). El texto puede aparecer en cualquier idioma.
- CC2/CC3/CC4 : Otros modos utilizados para la información relacionada con video.
- T1 : Borra una parte grande de la imagen de la pantalla del televisor, y muestra guías de programas o cualquier otra información actualmente transmitida.
- T2/T3/T4 : Otros modos que muestran información y borran una parte grande de la imagen de la pantalla del televisor.

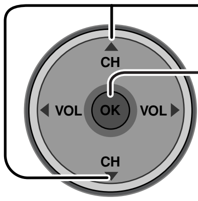
Presione para introducir su elección.

■ Digital

El menú Subtítulos cerrados digitales le permite configurar la forma en que va a ver los subtítulos digitales.



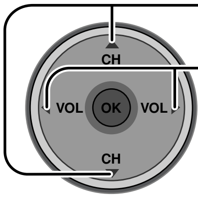
1



Presione para seleccionar Digital.

Presione para introducir el campo de submenús.

2

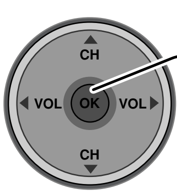


Presione para seleccionar el submenú.

Presione para seleccionar la opción.

- Service (Servicio) : Primary (Primario), Secondary (Secundario), Service 3 (Servicio3), Service 4 (Servicio 4), Service 5 (Servicio 5), Service 6 (Servicio 6)
- Font (Fuente) : Automatic (Automática), Default (Predeterminada), Mono-serif, Pro-serif, Mono, Prop, Casual, Cursive (Cursiva), Small Caps (Mayúsculas pequeñas)
- Size (Tamaño) : Automatic (Automático), Normal, Small (Pequeño), Large (Grande)
- Style : Automatic (Automático), None (Ninguno), Raised (Elevado), Depressed (Bajado),Uniform (Uniforme), Drop Shadow (Filo de sombra)
- Colors (Colores) :
  - Foreground (Primer plano) .... El color de la fuente [Automatic (Automático), Black (Negro), White (Blanco), Red (Rojo), Green (Verde), Blue (Azul), Yellow (Amarillo), Magenta, Cyan (Cian)]
  - Fore Opacity (Opacidad de primer plano) .... La opacidad de la caja de texto [Automatic (Automático), Transparent (Transparente), Translucent (Translúcido), Solid (Sólido), Flashing (Parpadeante)]
  - Background (Fondo) .... El color de la caja de texto [Automatic (Automático), Black (Negro), White (Blanco), Red (Rojo), Green (Verde), Blue (Azul), Yellow (Amarillo), Magenta, Cyan (Cian)]
  - Back Opacity (Opacidad de fondo) .... La opacidad de la caja de texto [Automatic (Automático), Transparent (Transparente), Translucent (Translúcido), Solid (Sólido), Flashing (Parpadeante)]
  - Outline (Contorno) .... El contorno del filo de sombra (si se selecciona en estilo) [Automatic (Automático), Black (Negro), White (Blanco), Red (Rojo), Green (Verde), Blue (Azul), Yellow (Amarillo), Magenta, Cyan (Cian)]
- Reset (Reposición) : Repone los ajustes CC digitales.

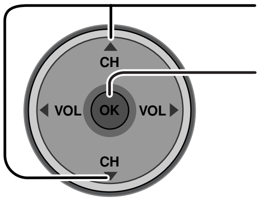
3



Presione para introducir su elección.

Other Adjust (Otro ajuste)

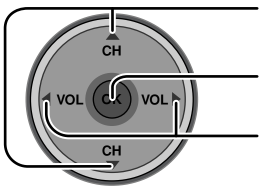
1



Presione para seleccionar Other Adj (Otro ajuste).

Presione para visualizar el submenú.

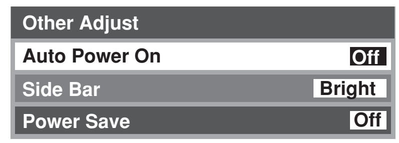
2



Presione para seleccionar el submenú.

Presione para introducir el siguiente campo.

Presione para seleccionar o activar el submenú.



■ Auto Power On (Set u Off) [Autoencendido (Encendido o Apagado)]

Seleccione Set (Encendido) para encender el televisor al mismo tiempo que el receptor de cable u otros componentes conectados.

■ Side Bar (Off, Dark, Mid, Bright) [Barra lateral (Apagada, Oscura, Media, Brillante)]

Mostrar una imagen en el modo 4:3 durante mucho tiempo puede crear una imagen secundaria. Cambie el brillo de las barras laterales para evitar la imagen secundaria.

Notas:
- Tener la barra lateral en Bright (Brillante) durante mucho tiempo puede causar imagen secundaria.
- La barra lateral puede parpadear (alternando en negro/blanco) dependiendo de la imagen. En tal caso, ponga Pic Mode (Modo de imagen) en Cinema (Cine) (vea la página 26).

■ Power Save (Off u On) [Ahorro de energía (Apagado o Encendido)]

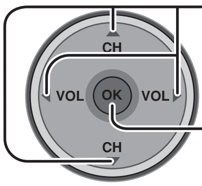
Suprime el nivel luminoso del televisor para reducir el consumo de energía.

CableCARD (Tarjeta de cable)

Este menú provee información cuando se inserta un CableCARD en la ranura CABLE CARD (vea la página 14).

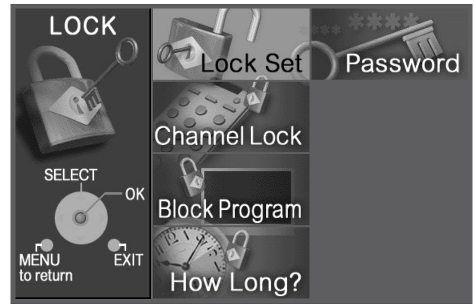
Notas:
- Si no está insertado el CableCARD y usted accede a la información CableCARD (Tarjeta de cable) aparece el mensaje “Cable Module Not present” (No está introducido el módulo de cable).
- Para recibir los programas ofrecidos por su compañía de cable, puede que tenga que subscribirse a esos servicios. Póngase en contacto con su compañía de televisión por cable para conocer la disponibilidad del CableCARD. El CableCARD se necesita para recibir los servicios digitales con recargo (donde se encuentren disponibles) a través de la entrada de cable. También puede pedir por adelantado programas de pago por visión.

Lock (Bloqueo)



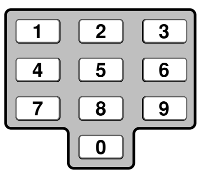
Presione para seleccionar el menú.

Presione para visualizar el submenú.

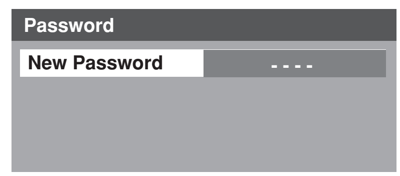


Password (Contraseña)

Ponga una contraseña de 4 dígitos para entrar en el menú Lock (Bloqueo).



Introduzca una contraseña de 4 dígitos.

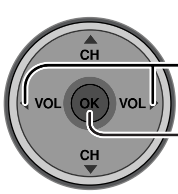


Notas:

- Utilice una clave que sea fácil de recordar, anótela y guárdela en un lugar seguro.
- Si selecciona Always (Siempre) para How Long? (¿Cuánto tiempo?) (vea la página 45) y olvida su código secreto, usted deberá acudir a un técnico cualificado para que cancele el ajuste de bloqueo de su televisor.

Lock Set (Ajuste de bloqueo)

Seleccione Lock Set (Ajuste de bloqueo) para impedir videojuegos, cintas de videocasetera, canales y modos de video.



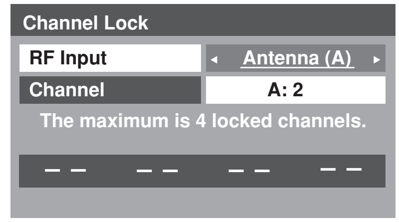
Presione para seleccionar la opción.

Presione para introducir su elección.



- Off (Apagado) : Apaga las funciones de Lock Set (Ajuste de bloqueo).
- Lock All (Bloqueo completo) : Todos los canales quedan bloqueados independientemente del nivel de clasificación.
- Game Lock (Bloqueo de juegos) : Bloquea los canales 3 y 4 y las entradas de video.
- Channel Lock (Bloqueo de canales) : Bloquea canales analógicos y digitales específicos. Para ver uno cualquiera de los canales bloqueados se necesita introducir una contraseña.

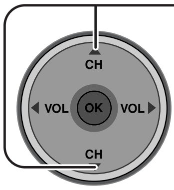
Channel Lock (Bloqueo de canales)



■ RF Input (Entrada de RF)

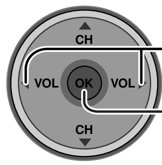
Seleccione Antenna (A) (Antena A) o Antenna (B) (Antena B).

1



Presione para seleccionar RF Input .

2



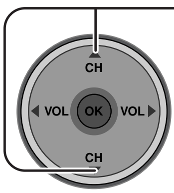
Presione para seleccionar la opción.

Presione para introducir su elección.

■ Channel (Canal)

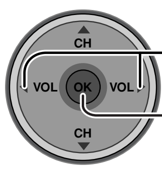
Seleccione hasta cuatro (4) canales para bloquearlos. Estos canales se bloquearán independientemente de la clasificación del programa.

1



Presione para seleccionar Channel.

2

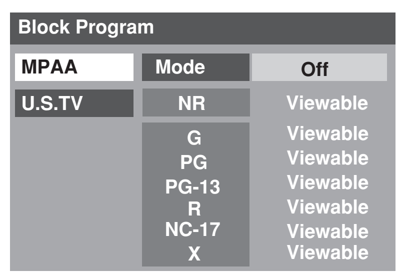


Presione para seleccionar la opción.

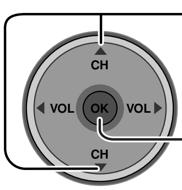
Presione para introducir su elección.
• Para borrar el número del canal de la lista, seleccione el número del canal y presione **OK**.

Block Program (Bloquear programa)

Este televisor incorpora la tecnología V-CHIP para bloquear películas o programas de televisión según la categoría de la clasificación. Hay dos (2) categorías que aconsejan sobre el contenido de los programas: MPAA (Motion Picture Association of America) y TV Parental Guidelines Ratings. Estas dos categorías se utilizan como guía para bloquear los programas.
● El modo predeterminado para la categoría de bloqueo es el de bloqueo desactivado.

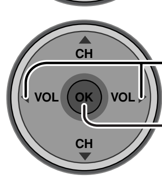


1



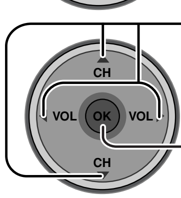
Presione para seleccionar MPAA u U.S.TV.
MPAA : Para clasificaciones de películas en los EE.UU.
U.S. TV: Para clasificaciones de programas de TV en los EE.UU.
Presione para introducir el campo Mode (Modo).

2



Presione para seleccionar On (Encendido) u Off (Apagado).
Presione para introducir su elección.

3



Presione para resaltar el nivel de clasificación deseado.

Presione para cambiar el límite de clasificación a "Blocked" (Bloqueado) o "Viewable" (Se puede ver).

Notas:
• La clasificación NR es independiente de otras clasificaciones.
• Bloqueando un nivel de clasificación basado en la edad, la clasificación NR y cualquier otra clasificación más restrictiva también quedarán bloqueadas.

GRÁFICA DE CALIFICACIONES DE PROGRAMAS DE TV PARA LOS EEUU

NR	Sin restricción. Consulte Precauciones del cliente abajo.
TV-Y	Para todos los niños. Los temas y elementos de este programa han sido diseñados específicamente para el público joven, incluyendo niños de 2 a 6 años.
TV-Y7	Para niños mayores. Los temas y elementos de este programa pueden incluir violencia física moderada, o pueden asustar a los niños menores de 7 años.
TV-G	Para el público en general. Contiene un poco de violencia o ninguna y no se emplean palabras malsonantes, y en los diálogos y en las situaciones no se toca el tema del sexo o éste se menciona sólo un poco.
TV-PG	Se sugiere la supervisión de los padres. El programa puede tener conversaciones groseras infrecuentes, violencia limitada y diálogos y situaciones con sexo provocativo.
TV-14	Se recomienda encarecidamente la supervisión de los padres. Este programa puede contener temas sofisticados, contenido sexual, lenguaje fuerte y violencia intensa.
TV-MA	Para un público adulto solamente. Este programa puede contener temas para adultos, lenguaje profano, violencia vívida y un contenido sexual explícito.
FV	VIOLENCIA EN PROGRAMAS DE FANTASÍA/DIBUJOS ANIMADOS
V	VIOLENCIA
S	SEXO
L	LENGUAJE OFENSIVO
D	DIÁLOGO CON CONTENIDO SEXUAL

GRÁFICA DE CALIFICACIONES DE PELÍCULAS PARA LOS EEUU

NR	CONTIENE PROGRAMAS SIN RESTRICCIONES Y PROGRAMAS NA (NO APLICABLES). Las películas no tienen restricciones o las restricciones no son aplicables.
G	PÚBLICO EN GENERAL. Se admiten a todos los públicos.
PG	SE SUGIERE LA SUPERVISIÓN DE LOS PADRES. Algún material puede no ser apropiado para los niños.
PG-13	SE RECOMIENDA ENCARECIDAMENTE LA SUPERVISIÓN DE LOS PADRES. Algún material puede no ser apropiado para los niños menores de 13 años.
R	RESTRINGIDAS. Los jóvenes menores de 17 años y los niños necesitan estar acompañados de sus padres o una persona adulta que los supervise.
NC-17	NO SE ADMITE AL PÚBLICO MENOR DE 17 AÑOS.
X	ADULTOS SOLAMENTE.

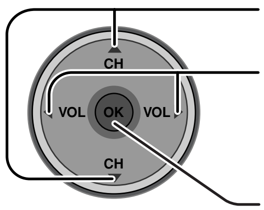
Precauciones del cliente

El sistema V-Chip que se utiliza en este aparato es capaz de bloquear los programas “NR” (no clasificados, no aplicables y ninguno) de acuerdo con las normas de la FCC indicadas en la Sección 15.120(e)(2). Si se elige la opción de bloqueo de programas “NR”, “podrán producirse resultados inesperados y posiblemente confusos, y usted tal vez no pueda recibir anuncios de emergencia o ninguno de los tipos de programación siguientes”.

- Anuncios de emergencia (mensajes EAS, avisos del tiempo y otros)
- Programas locales • Noticias • Política • Anuncios de servicios públicos • Religión • Deportes
- Tiempo

How Long? (¿Cuánto tiempo?)

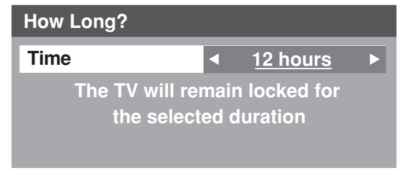
Los ajustes de bloqueo permanecen durante el tiempo seleccionado.



Presione para seleccionar How Long?

Presione para seleccionar 12 hours (12 horas), 24 hours (24 horas), 48 hours (48 horas), o Always (Siempre).

Presione para introducir su elección.



Nota:
Cuando seleccione Always (Siempre) y olvide su código secreto, acuda a un técnico cualificado para que cancele el ajuste de bloqueo.

Mensajes de bloqueo

En la pantalla se muestran varios mensajes de bloqueo dependiendo del tipo de bloqueo que usted seleccione en el menú Lock (Bloqueo).

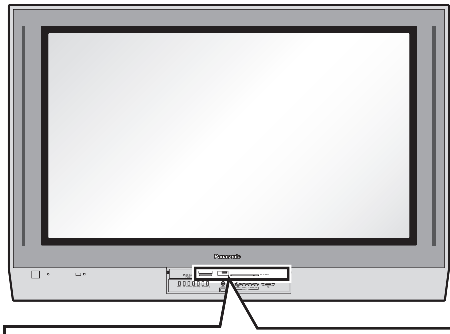
Nota:
Al introducir una contraseña se anulará la condición de bloqueo. Sin embargo, las clasificaciones seleccionadas se mantendrán.

Mensaje	Causa posible
Video Inputs Locked.	Se selecciona Game Lock (Bloqueo de juegos).
Channel Locked. Press OK to enter password.	Se selecciona Channel Lock (Bloqueo de canales).
Rating Limit Exceeded. Press OK to enter password.	Se ha sobrepasado el nivel de la clasificación.

Photo Viewer

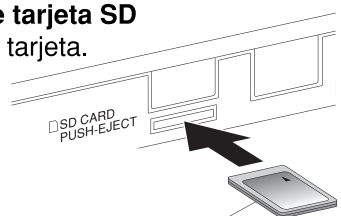
Photo Viewer le permite mostrar imágenes JPEG grabadas mediante una cámara digital en una tarjeta SD o en otro tipo de tarjeta de memoria cuando ésta se introduce en la ranura correcta.

Introducción y extracción de una tarjeta



■ Ranura de tarjeta SD

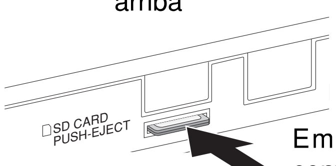
Introduzca la tarjeta.



Lado de la etiqueta hacia arriba

Introdúzcala hasta que haga un ruido seco.

Retire la tarjeta.

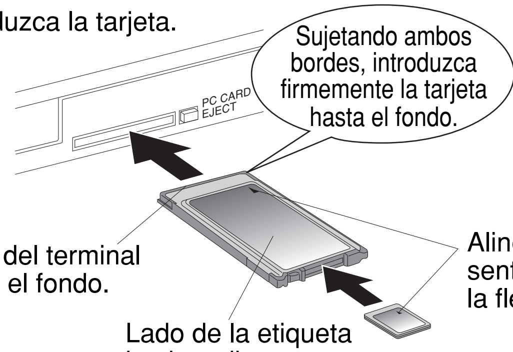


Empuje sobre el centro de la tarjeta.

■ Ranura de tarjeta PCMCIA

Apague el televisor antes de introducir o retirar una tarjeta PCMCIA.

Introduzca la tarjeta.

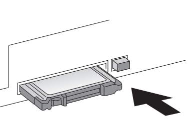


Lado del terminal hacia el fondo.

Lado de la etiqueta hacia arriba

Alinee el sentido de la flecha.

Retire la tarjeta.



Presione el botón de expulsión.

Si el botón de expulsión no sale al exterior

Empuje de nuevo la tarjeta PCMCIA hacia adentro y luego presione de nuevo el botón de expulsión.

Nota:

Si se utiliza el adaptador de tarjeta PC, desmonte junto con el adaptador.

Tarjetas compatibles y tamaño de tarjetas

Ranura de tarjeta SD

- SD Card (512MB)
- Multi Media Card (128MB)
- miniSD Card* (128MB)

Ranura de tarjeta PCMCIA

- SD Card (512MB)
- Multi Media Card (128MB)
- Smart Media (128MB)
- xD Picture Card(128MB)
- Memory Stick Pro (1GB)
- miniSD Card* (128MB)
- Compact Flash (1GB)
- Memory Stick (128MB)
- Flash ATA (128 MB)

Las tarjetas necesitan el adaptador de tarjeta PCMCIA.
(Algún adaptador de tarjeta PC no será compatible.)

∗ La mini SD Card (tarjeta miniSD) necesita el adaptador miniSD.

- Photo Viewer no es compatible con los discos duros tipo tarjeta (discos duros Micro Drive, Mobile, etc.).
- Con este televisor no se suministran tarjetas de memoria.
- Cuando estén introducidas una tarjeta SD y una tarjeta PCMCIA en las ranuras, la tarjeta SD tendrá prioridad.

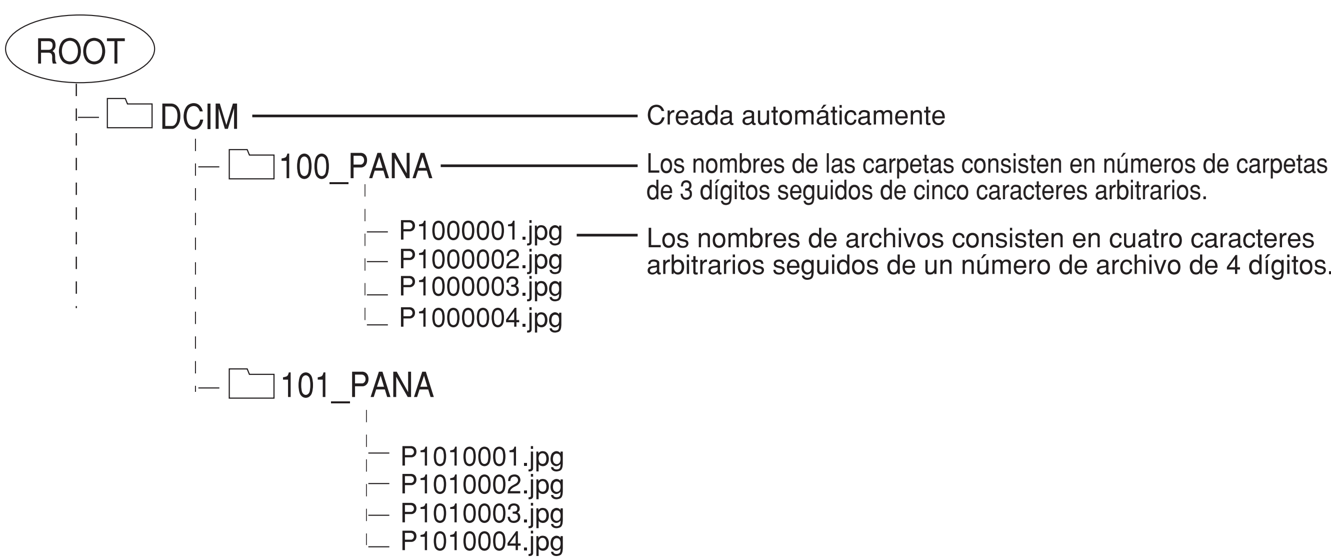
■ Protección de datos de tarjeta

- No retire la tarjeta mientras Photo Viewer está accediendo a la información (cuando el icono de la tarjeta está parpadeando). Esto podrá dañar la tarjeta de memoria o la propia unidad.
- Antes de introducir o extraer la tarjeta PCMCIA, asegúrese de que el televisor esté apagado. De lo contrario podría dañarse la unidad.
- No toque los terminales de la parte posterior de la tarjeta SD/tarjeta PCMCIA.
- Introduzca siempre la tarjeta en el sentido correcto. De lo contrario podrá dañarse la tarjeta y esta unidad.
- No someta la tarjeta a una presión excesiva ni a golpes fuertes.
- La interferencia eléctrica, las descargas electrostáticas y las fallas de funcionamiento de la unidad o la tarjeta pueden causar pérdida de datos o daños en la tarjeta.
- Deberán hacerse copias de seguridad periódicas de los datos guardados a modo de protección contra la corrupción de los datos, la pérdida de datos o las fallas de funcionamiento del dispositivo. Tenga en cuenta que nuestra compañía no se hará responsable de ningún daño o pérdida de los datos guardados.
- **ADVERTENCIA: Al igual que todos los objetos pequeños, la tarjeta SD puede ser tragada por los niños pequeños. No deje que los niños manipulen la tarjeta SD. Guarde inmediatamente la tarjeta SD después de utilizarla.**

Carpetas y archivos

- Photo Viewer sólo puede mostrar imágenes fijas grabadas mediante una cámara digital en archivos JPEG estándar del formato DCF* y EXIF.
  *DCF (Norma de diseño para sistema de archivos de cámaras)
  Norma unificada establecida por la Asociación de las Industrias de la Tecnología de la Información y de la Electrónica del Japón (JEITA).
- Las tarjetas de memoria deberán estar formateadas con FAT12 o FAT16 para poder ver su contenido en un televisor. Si las tarjetas no están formateadas puede haber incompatibilidad con ciertos adaptadores de tarjetas de memoria. Si pasa esto, vuelva a formatear la tarjeta en su cámara digital.
  Al reformatear la tarjeta se borrarán las imágenes guardadas en ella. Consulte el manual de su cámara para tener más información.
- Máximo número de carpetas que puede mostrarse: **100**.
- Máximo número de archivos que puede mostrarse: **3.000**.
- **Resolución de imagen:** Compatible dentro de la gama 64 x 64 - 8192 x 8192 (submuestreo 4:2:2 o 4:2:0)
- Si la imagen se importa desde un PC, ésta deberá ser del formato EXIF (formato de archivo de imagen intercambiable) 2.0, 2.1, 2.2, además del formato DCF (norma de diseño para sistema de archivos de cámara).
- JPEG modificado utilizando un PC no se mostrará en el televisor.
- Photo Viewer no puede mostrar imágenes de Motion JPEG ni imágenes fijas que no sean del formato DCF (ej., TIFF, BMP).
- Si el archivo está parcialmente corrompido, ésta tal vez se muestre con una resolución más baja.
- El tamaño de la imagen mostrada depende el tamaño grabado.

Ejemplo de estructura de carpeta
Las imágenes JPEG en todas las carpetas se muestran en secuencia.



Notas:
- Los nombres de carpetas y archivos pueden cambiar dependiendo de la cámara digital.
- Utilice los caracteres “a-z”, “A-Z”, “0-9” y “_” para poner un nombre a un directorio o archivo. No utilice caracteres de dos bytes no otros códigos especiales.

Modo de imagen miniatura

La pantalla de imagen miniatura es la pantalla de entrada inicial desde el menú principal.

- Cuando se introduzcan las tarjetas SD y PCMCIA, el televisor reproducirá la tarjeta SD. Para reproducir una tarjeta PCMCIA, seleccione “PC” en “Card” (Tarjeta) (vea la página 50) después de introducir la tarjeta PCMCIA.

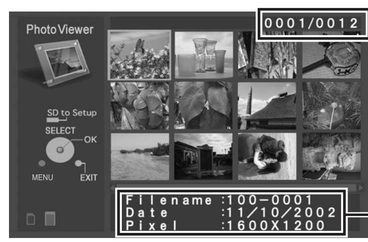


1 Introduzca la tarjeta en la ranura apropiada (vea la página 46).

O



Presione para mostrar una pantalla de imagen miniatura.



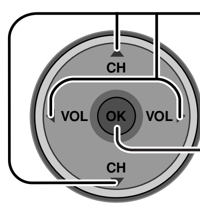
Número de imagen/Número total de imágenes

Nombre de archivo, la fecha y los píxeles (resolución) de la iamgen

Notas:

- También puede introducir la pantalla de imagen miniatura desde la pantalla MENU (vea la página 24).
- Si hay muchos archivos o el tamaño del archivo es grande se puede tardar más tiempo en mostrar la imagen miniatura.
- La imagen desaparece de la pantalla mientras Photo Viewer accede a la información de la tarjeta. Después de acceder a las imágenes de la tarjeta se muestra una pantalla de imagen miniatura.

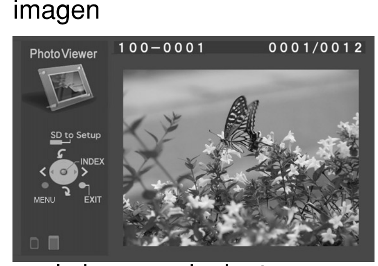
2



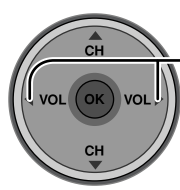
Seleccione la imagen miniatura.

Presione para visualizar la imagen en el modo de visión de una sola imagen.

Modo de visión de una sola imagen



3

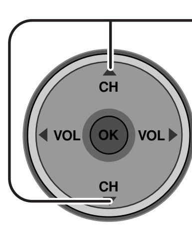


Presione para seleccionar la imagen siguiente o la anterior.

- Presione **OK** para volver a la pantalla de imagen miniatura.

Para girar la imagen

Mientras está en el modo de visión de una sola imagen



Presione para girar la imagen noventa grados.

Setup Menu (Menú de programación) de Photo Viewer

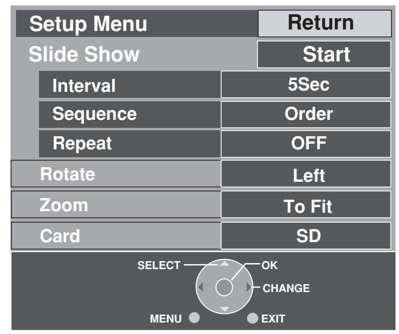
Este menú le permite personalizar funciones del Setup Menu (Menú de programación) de Photo Viewer.

En el modo de imagen miniatura o en el modo de visión de una sola imagen (vea la página 48)

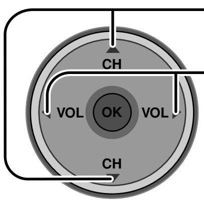
1



Presione para mostrar la pantalla Setup Menu (Menú de programación).



2



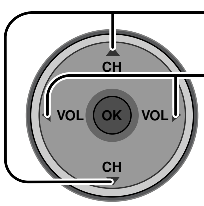
Presione para seleccionar el submenú.

Presione para ajustar o activar el submenú.

Slide Show (Presentación de imágenes)

Seleccione las opciones de Interval (Intervalo), Sequence (Secuencia) y Repeat (Repetición) antes de empezar la presentación de imágenes.

1



Presione para seleccionar el submenú.

Presione para ajustar o activar el submenú.

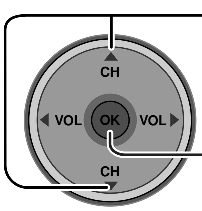
■ **Interval (Intervalo)**

Le permite cambiar la duración del tiempo que una imagen se muestra en la pantalla. (5Sec, 10Sec, 15Sec, 30Sec, 60Sec, 90Sec, 10Min).

■ **Sequence (Order o Random) [Secuencia (En orden o Aleatoria)]**

■ **Repeat (OFF u ON) [Repetición (APAGADO o ENCENDIDO)]**

2



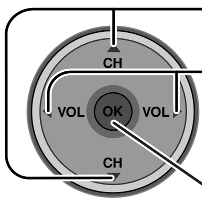
Presione para seleccionar Start (Inicio).

Presione para iniciar la presentación de imágenes.

- Presione de nuevo para detener la presentación de imágenes.
- Presione **ASPECT** para cambiar el aspecto de la imagen (vea la página 56).

Rotate (Girar)

Le permite girar la imagen (vea la página 48).



Presione para seleccionar Rotate.

Presione para seleccionar Left (Izquierda) o Right (Derecha).

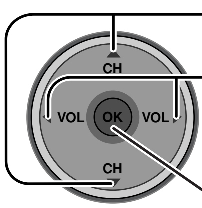
Presione para activar la opción.

Zoom

(En el modo de visión de una sola imagen)

Le permite seleccionar el aumento de la visión de una sola imagen.

1

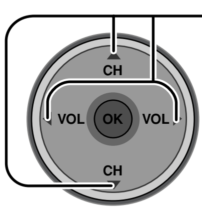


Presione para seleccionar Zoom.

Presione para seleccionar To Fit (Para ajustar), x2 o x4.

Presione para activar la opción.

2

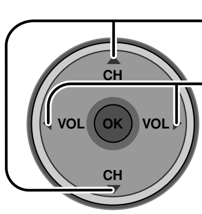


Presione para mover la imagen en el cuadro de imagen.

Para cancelar el zoom
Presione **OK** para ver la imagen con el aumento normal.

Card (Tarjeta)

Seleccione SD o PC cuando ambas tarjetas estén introducidas en las ranuras.



Presione para seleccionar Card.

Presione para seleccionar SD o PC.

Localización de fallas del Photo Viewer

Síntoma	Causa y remedio	Página
No puede leer el contenido de la tarjeta.	• Formato incompatible. Debe ser formateado con FAT 12 o FAT 16. • La extensión no es “JPG”. El Photo Viewer solo puede mostrar archivos JPEG con el estándar EXIF. • Las carpetas no cuentan con el estándar DCF.	47 47 47
La tarjeta no puede ser removida.	Presione la tarjeta hasta que quede insertada completamente y luego remuevala.	46
Calidad de imagen pobre.	Si la imagen principal no puede ser accesada (el archivo está parcialmente corrompido), el Photo Viewer accesará la previsualización. Confirme el formato de la imagen.	47
Puede tardar mucho tiempo en visualizarse.	Puede tardar mucho tiempo en visualizarse si hay muchos archivos o si el tamaño de archivo es grande.	47
La pantalla se pone negra.	Si el televisor no se utiliza durante más de 5 minutos mientras se muestra una pantalla de imagen miniatura o en el modo de visión de una sola imagen, la pantalla se pondrá negra para evitar la retención de imagen. Presione cualquier tecla para volver a mostrar una imagen normal.	–

■ **Mensajes de error**

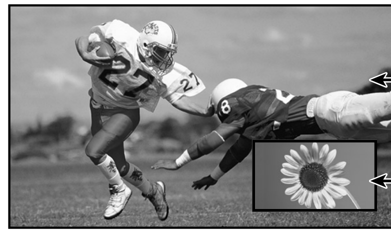
“Card is not inserted correctly.”	Introduzca una tarjeta.
“This type of image is not supported.”	El archivo JPEG está corrompido y no se puede decodificar.
“This type of format is not supported.”	La tarjeta no está formateada con FAT12 o FAT16 o no pertenece al estándar DCF.
“  ”	No se puede mostrar la imagen miniatura ni la imagen principal.
“Photo Viewer cannot support over 3000 JPEG files.”	Hay más de 3.000 archivos de imágenes.
“Photo Viewer cannot support over 8192 x 8192 pixels.”	Exceso de resolución.
“This type of card is not supported.”	Se ha introducido una tarjeta incompatible.
“Press any key to return.”	La pantalla se ha puesto negra para evitar la retención de imagen. Presione cualquier tecla para volver a la imagen normal.

Operación de imagen en imagen (PIP)

Este televisor incluye una función de Picture in Picture (imagen en imagen) (PIP) gracias al empleo de dos sintonizadores. Esto le permite ver dos (2) emisiones en vivo al mismo tiempo sin tener que utilizar una fuente de vídeo externa como, por ejemplo, una videograbadora, un decodificador de televisión por cable, etc.



1 PIP — Presione para mostrar el cuadro PIP.

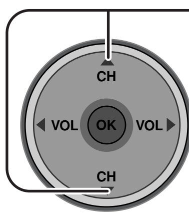


Notas:
- El audio sólo procede de la imagen principal.
- El cuadro PIP muestra la imagen del canal analógico de ANTENNA (A) solamente, y no puede mostrar la imagen del canal digital de ANTENNA (B).

2 **En el cuadro PIP**

PIP CH DVD/VCR CH ▼ ▲ — Seleccione el canal.

En la imagen principal



Presione para seleccionar el canal.
- También puede utilizar los botones numerados.

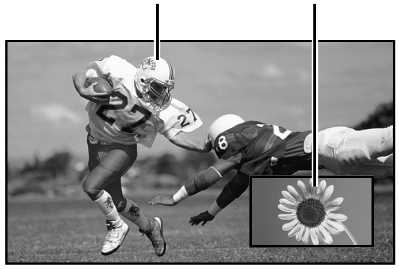
Para cancelar la operación PIP

PIP

Para cambiar las imágenes

SWAP

Imagen principal — Cuadro PIP



↔

Imagen principal — Cuadro PIP



Para cambiar el tamaño del cuadro PIP

PIP MIN REW ◄◄ : más pequeño   PIP MAX FF ►► : más grande

Para congelar la imagen

Cuadro PIP

FREEZE TV/VCR

• Presione de nuevo para cancelar Freeze (Congelar).

Imagen principal

Mientras no se muestra el cuadro PIP

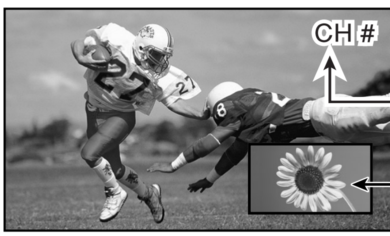
FREEZE TV/VCR

• Seleccione PIP o Split [vea la página 27, Freeze (Congelar)] cuando congele la imagen principal.

Notas:
• Freeze (Congelar) se cancela después de 3 minutos.
• Sólo MOVE (mover) (vea más abajo) se activa mientras está congelada la imagen principal.

Para seleccionar el modo de entrada del cuadro PIP.

TV/VIDEO



CH # → Comp 1 → Comp 2 → HDMI → Video 1 → Video 2 → Video 3 → CH #

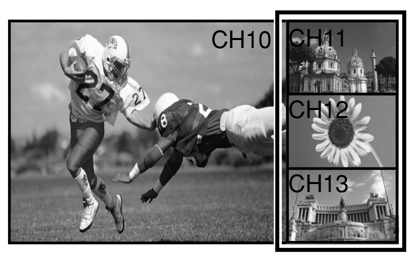
El modo de entrada cambia en el cuadro PIP.

Para buscar el canal

(Para canales analógicos solamente)

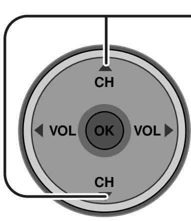
1 SEARCH OPEN/CLOSE

Presione para mostrar los cuadros de búsqueda.
• Presione de nuevo para cancelar Search (Búsqueda).



Los cuadros de búsqueda

2

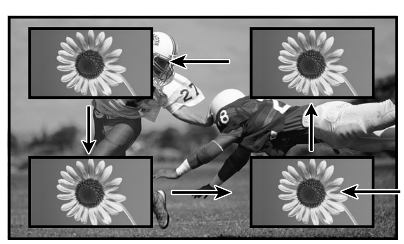


Presione para seleccionar el canal.
• También puede utilizar los botones numerados.

Para mover el cuadro PIP

MOVE

Presione para posicionar el cuadro PIP en una de las cuatro esquinas.



Cuadro de imagen en imagen

Operación SPLIT

Esta función le permite ver dos canales diferentes uno al lado del otro empleando, o sin emplear, una fuente de vídeo externa.



1 SPLIT — Presione para mostrar el cuadro SPLIT .

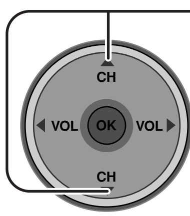
Imagen principal →  ← Cuadro SPLIT (Aparece la pantalla seleccionada previamente.)

Notas:
- El audio sólo procede de la imagen principal.
- El cuadro SPLIT muestra la imagen del canal analógico de ANTENNA (A) solamente, y no puede mostrar la imagen del canal digital de ANTENNA (B).

2 **En el cuadro SPLIT**

PIP CH DVD/VCR CH ▼ ▲ — Seleccione el canal.

En la imagen principal



Presione para seleccionar el canal.
- También puede utilizar los botones numerados.

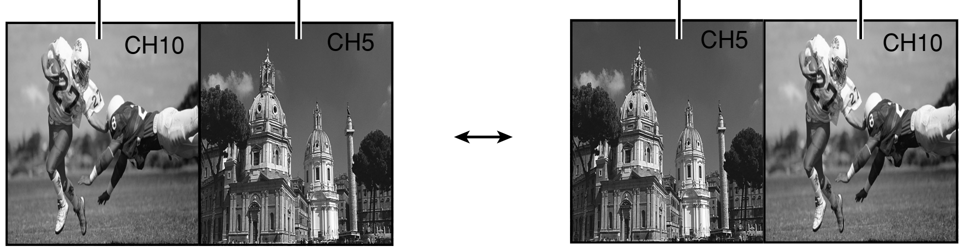
Para cancelar la operación SPLIT

SPLIT

Para cambiar las imágenes

SWAP

Imagen principal   Cuadro SPLIT   Imagen principal   Cuadro SPLIT



Para congelar la imagen

Cuadro SPLIT

FREEZE TV/VCR

• Presione de nuevo para cancelar Freeze (Congelar).

Imagen principal

Mientras no se muestra el cuadro SPLIT

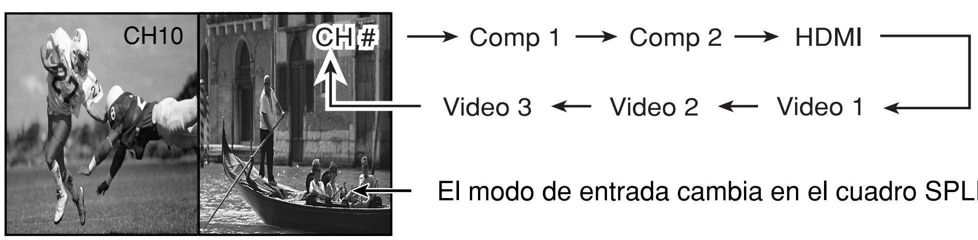
FREEZE TV/VCR

• Seleccione PIP o Split [vea la página 27, Freeze (Congelar)] cuando congele la imagen principal.

Nota:
• Freeze (Congelar) se cancela después de 3 minutos.

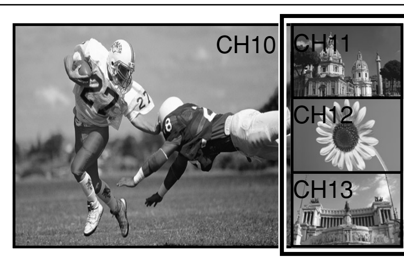
Para seleccionar el modo de entrada del cuadro SPLIT.

TV/VIDEO



Para buscar el canal

(Para canales analógicos solamente)

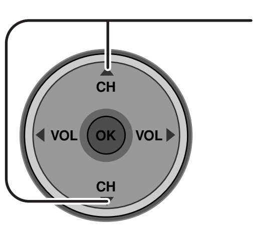


Los cuadros de búsqueda.

1 SEARCH OPEN/CLOSE

Presione para mostrar los cuadros de búsqueda.
• Presione de nuevo para cancelar Search (Búsqueda).

2



Presione para seleccionar el canal.
• También puede utilizar los botones numerados.

Notas:
• La imagen principal y el cuadro SPLIT se procesan en circuitos individuales, y pueden tener una calidad de imagen un poco diferente.
• No puede mostrar la misma imagen en la imagen principal y en el cuadro SPLIT al mismo tiempo.
• Mientras se muestra el cuadro congelado de la imagen principal, usted no podrá seleccionar ni buscar el canal, cambiar las imágenes o seleccionar el modo de entrada.

Controles de ASPECTO

Los controles de aspecto le permiten elegir el aspecto dependiendo del formato de la señal recibida y sus preferencias.

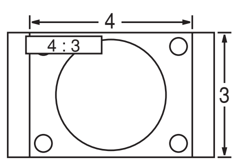
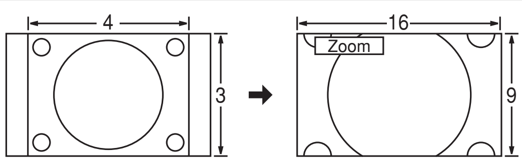
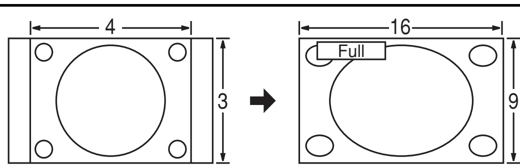
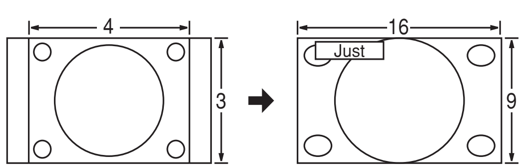




Presione para cambiar el modo de aspecto.

Nota: Los modos de aspecto disponibles dependen de la señal recibida.

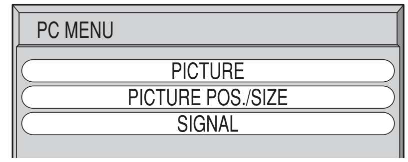
- 480i : 4:3, Full, Just o Zoom
- 480p (4:3) : 4:3, Full o Zoom
- 480p (16:9) : 4:3, Full o Zoom
- 1080i : 16:9 Sólo
- Modo PC : NORMAL, FULL, JUST o ZOOM
  (En el modo PC, indicación “4:3” se visualiza como “NORMAL”.)

Modo	Imagen	Explicación
4 : 3 (**NORMAL** en el modo PC)		Muestra una imagen 4:3 en su tamaño 4:3 estándar con barras laterales color gris. (Puede crear un efecto de imagen secundaria en la pantalla si se muestra durante largos periodos de tiempo.)
Zoom		Expande uniformemente una imagen 4:3 (anchura y altura) para que ocupe toda la pantalla a lo ancho y luego reposiciona la imagen verticalmente. (Recomendado para la imagen tipo buzón.)
Full		Muestra una imagen ocupando toda la pantalla. (Recomendado para imágenes anamórficas.)
Just		Alarga los bordes derecho e izquierdo de una imagen 4:3 para que llene la pantalla, y el centro de la pantalla tiene un aspecto de corrección aplicada. El tamaño de la imagen depende de la señal original. (Recomendado para ver normalmente la televisión.)

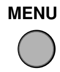
Nota:
En el modo PC, la información del modo de aspecto se visualiza en la parte superior derecha de la pantalla.

PC MENU

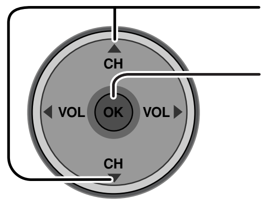
Preparación:
- Conecte un PC al televisor (vea la página 18).
- Seleccione el modo de entrada PC (vea la página 20).



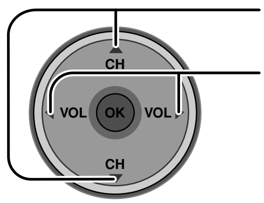


1 

Presione para visualizar el PC MENU.

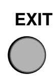
2 

Presione para seleccionar el submenú.
Presione para visualizar el submenú.

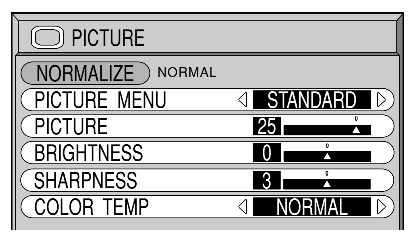
3 

Presione para seleccionar el submenú secundario.
Presione para ajustar el submenú secundario.

Para volver a la pantalla anterior



PICTURE (IMAGEN)



■ NORMALIZE (NORMALIZAR)

Seleccione “NORMALIZE” (NORMALIZAR) para reponer los ajustes predeterminados hechos en la fábrica.

Nota:
- Puede seleccionar “NORMALIZE” (NORMALIZAR) cuando cambie los ajustes.

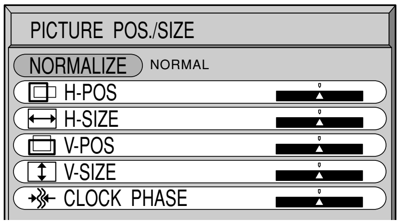
■ PICTURE MENU (MENÚ DE IMAGEN)

Elemento	Explicaciones
AUTO	Selecciona automáticamente el modo más adecuado al brillo del ambiente.
STANDARD	Para ver en ambientes estándar (iluminación de la tarde) Este menú selecciona los niveles normales del brillo y del contraste.
DYNAMIC	Para ver en ambientes brillantes. Este menú selecciona niveles de brillo y contraste más altos que los normales.
CINEMA	Ideal para ver películas.

■ PICTURE (IMAGEN), BRIGHTNESS (BRILLO), SHARPNESS (NITIDEZ), COLOR TEMP (TEMPERATURA DE COLOR)

Elemento	Explicaciones
PICTURE	Ajusta las partes blancas de la imagen.
BRIGHTNESS	Ajusta las partes oscuras de la imagen.
SHARPNESS	Ajusta la calidad de los detalles.
COLOR TEMP	Para aumentar o disminuir los colores Warm (rojo) y Cool (azul) según las preferencias personales.

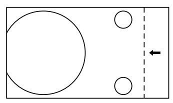
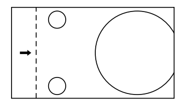
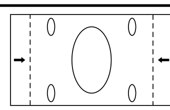
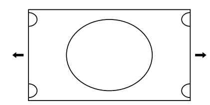
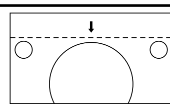
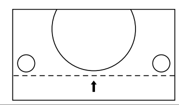
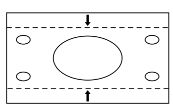
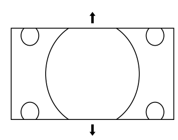
PICTURE POS./SIZE (POSICIÓN DE IMAGEN/TAMAÑO)



Nota:
Si se recibe una señal “Cue” (Localización progresiva) o “Rew” (Localización regresiva) desde una videocasetera o reproductor DVD, la posición de la imagen podrá desplazarse hacia arriba o hacia abajo a pesar de los ajustes de PICTURE POS./SIZE (POSICIÓN DE IMAGEN/TAMAÑO).

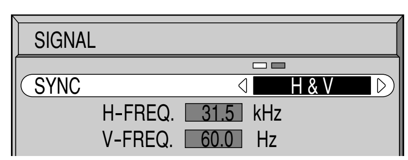
■ NORMALIZE (NORMALIZAR)

Seleccione “NORMALIZE” (NORMALIZAR) para reponer los ajustes predeterminados hechos en la fábrica.
Nota:
• Puede seleccionar “NORMALIZE” (NORMALIZAR) cuando cambie los ajustes.

Elemento	Cuando se presiona la tecla de posición izquierda “◄”.	Cuando se presiona la tecla de posición derecha “►”.
H-POS		
H-SIZE		
V-POS		
V-SIZE		
CLOCK PHASE (RGB/PC in Mode)	Utilizando la tecla de posición izquierda “ ◄ ” o la tecla de posición derecha “ ► ” para hacer ajustes se pueden eliminar los parpadeos y la distorsión.	

SIGNAL (SEÑAL)

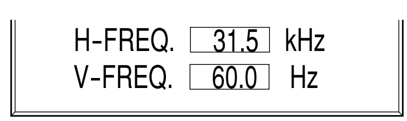
■ SYNC
[Sólo para la señal RGB INPUT (ENTRADA RGB)]



- H & V: Las señales de sincronización H y V se introducen desde el conector HD/VD.
- ON G: Utiliza una señal sincronizada en la señal Video G, que se introduce desde el conector G.

■ H-FREQ. (kHz)/V-FRQ. (Hz) [FRECUENCIA HORIZONTAL (kHz)/FRECUENCIA VERTICAL (Hz)] [Sólo para la señal RGB INPUT (ENTRADA RGB)]

Indica las frecuencias H (horizontal)/V (vertical).



Gama de indicación:
Horizontal 15 - 110 kHz
Vertical 48 - 120 Hz

Funcionamiento de equipos periféricos utilizando el control remoto

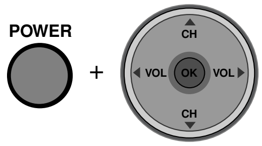
Programación del código de control remoto

Puede controlar los componentes de otros fabricantes utilizando el control remoto de este televisor.

Preparación:
- Conecte el enchufe del componente externo a un tomacorrientes.
- Asegúrese de que el componente esté apagado.

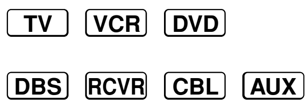


1



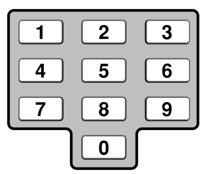
Mantenga presionado **POWER** y **OK** juntos **durante un mínimo de 5 segundos**.
- Los botones de selección de modo parpadean, y luego suelte **POWER** y **OK**.

2



Seleccione el tipo de componente.
- El botón seleccionado se enciende y todos los demás se apagan.

3

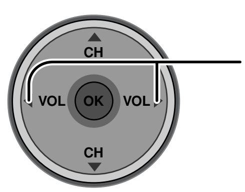


Introduzca el código de infrarrojos de 3 dígitos (vea las páginas 60-62).
- Ajuste predeterminado en fábrica: Panasonic
- Presione **POWER** para probar la operación.

Notas:
- Si el componente no funciona con el control remoto, repita el procedimiento utilizando otro código. (Algunas marcas tienen múltiples códigos.)
- Si se introduce un código incorrecto, o si el procedimiento tarda más de 30 segundos, la programación fallará.

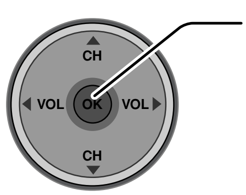
Para encontrar el código no listado en el índice

1 Después de seleccionar el tipo de componente (paso 2 anterior)



Presione para seleccionar el código.
- El código empieza desde el dispositivo actual.
- Presione **POWER** para probar la operación.
- Repita los pasos hasta encontrar el código del componente. Tal vez sea necesario hacer varios intentos antes de encontrar el código.

2



Presione para guardar el código.

Índice de claves infrarrojas

El control remoto es capaz de controlar muchas marcas de equipos periféricos. Consulte la página 59 para conocer los procedimientos de programación.

Notas:
- La memoria del control remoto es limitada y, por lo tanto, es posible que no pueda controlar algunos modelos. El control remoto no ha sido diseñado para controlar todas las funciones disponibles en todos los modelos.
- Después de introducir el código de infrarrojos apropiado, presione los botones selectores de modo (vea la página 20). Consulte las páginas 63 y 64 para conocer detalles del funcionamiento de los equipos periféricos utilizando el control remoto.

Claves de control remoto por infrarrojos para componentes específicos

Consejo útil: Escriba los números de la claves para sus componentes en los espacios suministrados abajo. Esto servirá como una referencia muy útil siempre que necesite volver a programar su control remoto.

CABLE Decodificador de televisión por cable		**VCR** Videograbadora		**CD** Reproductor de disco compacto	
DBS Sistema de emisión digital		**RCVR** Receptor o amplificador		**LD** Reproductor de disco láser	
Otro componente		Otro componente		Otro componente	
Otro componente		Otro componente		Otro componente	

VCR

AUX

Claves para videograbadora

Marca	Código
Admiral	335
Aiwa	332
Akai	314, 315, 316, 329
Audio Dynamic	311, 339
Bell &Howell	305, 313
Broksonic	320, 326
Canon	323, 325
CCE	343
Citizen	306
Craig	305, 306, 329
Curtis Mathes	324, 345
Daewoo	301, 324, 343
DBX	310, 311, 339
Dimensia	345
Emerson	303, 319, 320, 325, 326, 343
Fisher	305, 307, 308, 309, 313
Funai	320, 326, 334
GE	324, 333, 345
Goldstar	306
Gradiente	334
Hitachi	300, 323, 345
Instant Replay	323, 324
Jensen	339
JVC	310, 311, 334, 339
Kenwood	306, 310, 311, 339
LXI	300, 305, 306, 307, 308, 309
Magnavox	323, 324, 331
Marantz	310, 311, 339
Marta	306
Memorex	309, 324
MGA	338, 340, 341, 347, 348
Minolta	300, 345
Mitsubishi	338, 340, 341, 347, 348
Multitech	304, 347
NEC	310, 311, 334, 339
Olympic	323, 324
Optimus	306, 321, 328, 335
Orion	320, 326
Panasonic	321, 322, 323, 324
Penney	300, 305, 310, 311, 324, 339, 345
Pentax	300, 311, 345
Philco	320, 323, 324, 326, 331, 343
Philips	323, 324, 331
Pioneer	323
Proscan	300, 301, 302, 323, 324, 331, 333, 345, 346
Quasar	321, 322, 323, 324
Radio Shack	305, 309, 324, 333, 336, 340
RCA	300, 301, 302, 323, 324, 331, 333, 345, 346
Realistic	305, 309, 324, 336, 340
Samsung	302, 304, 333
Sansui	320, 326, 339, 352
Sanyo	305, 309, 313
Scott	301, 302, 304, 309, 320, 326, 338, 340, 347, 348
Sears	300, 305, 306, 307, 308
Sharp	335, 336
Shintom	317
Signature 2000	335
Singer	317
Sony	328, 329, 330
Sylvania	323, 324, 331
Tashiro	306
Tatung	310, 311, 339
Teac	310, 311, 339
Technics	321, 322, 323, 324
Teknika	324
Toshiba	301, 346
Vector Research	311
Wards	306, 309, 335, 336, 344
Yamaha	305, 310, 311, 339
Zenith	306, 344

DVD

Claves para DVD

Marca	Código
Denon	100
Ferguson	101
JVC	109
Mitsubishi	105
Nordmende	101
Panasonic	100
Philips	103
Pioneer	102
RCA	101

Marca	Código
Saba	101
Samsung	110
Sharp	108
Sony	104
Technics	100
Thomson	101
Toshiba	103
Yamaha	100
Zenith	107

DVD

Claves para CD

Marca	Código
Admiral	226
Aiwa	233, 235
Carver	229
Denon	242
Emerson	239
Fisher	205
Harman Kardon	219, 220, 221, 223
Hitachi	207
Jensen	234
JVC	240, 241, 245
Kardon	223
Kenwood	200, 201, 211, 245
LXI/Sears	236
Magnavox	229, 232
Marantz	229
McIntosh	221
Nakamichi	210
Onkyo	214, 215

Marca	Código
Optimus	208, 218, 220, 222
Panasonic	224, 225, 227
Philips	229, 230
Pioneer	208
Quasar	224, 225, 227
RCA	231, 237, 238, 247
Sansui	210, 246
Sanyo	205
Scott	210, 246
Sharp	242, 243
Sherwood	220
Sony	228
Soundesign	244
Teac	212, 216, 218
Technics	224, 225, 227
Victor	240, 241, 245
Yamaha	202, 203, 204

AUX

Claves para videograbadoras personales

Marca	Código
Panasonic Replay TV	100
Philips Tivo	101
Sony Tivo	102

AUX

Claves para platina de casete

Marca	Código
Aiwa	223, 224, 225
Denon	231
Fisher	203
Jensen	214
JVC	229, 230
Kenwood	200, 207
Marantz	202
Nakamichi	205
Onkyo	208, 209, 213
Panasonic	216, 218

Marca	Código
Philips	222
Pioneer	204
RCA	226, 227, 228
Sansui	205, 210
Sharp	231
Sony	219, 220
Teac	210, 211, 215
Technics	216, 218
Yamaha	201, 202

RCVR

Claves para receptores

Marca	Código
Admiral	120
Aiwa	125, 126
Denon	134, 135, 136
Fisher	104
Garrard	113
Harman Kardon	115, 123
Jensen	129
JVC	132, 133
Kenwood	100, 108
Magnavox	127
Marantz	124
McIntosh	116
Nakamichi	106
Onkyo	109, 114

Marca	Código
Optimus	103, 127, 130, 131
Panasonic	118, 119, 121
Philips	123
Pioneer	105, 107
Quasar	118, 119, 121
RCA	103, 105, 127, 130, 131
Sansui	103, 111, 139
Sharp	134, 137
Sony	122
Soundesign	138
Teac	111, 112, 113
Technics	118, 119, 121
Victor	132, 133
Yamaha	101, 102

CBL

Claves para decodificadores de televisión por cable

Marca	Código
ABC	124
Archer	125, 132
Cableview	105, 132
Citizen	105, 122
Curtis	112, 113
Diamond	124, 125, 132
Eagle	129
Eastern	134
GC Brand	105, 132
Gemini	122
General Instrument/Jerrold	111, 119, 120, 121, 122, 123, 124, 125, 126, 127
Hamlin	112, 118, 140, 141, 142, 145
Hitachi	103, 124
Macom	103, 104, 105
Magnavox	133
Memorex	130
Movietime	105, 132
Oak	102, 137, 139
Panasonic	109, 110, 114
Philips	106, 107, 128, 129, 130
Pioneer	101, 116
Pulsar	105, 132

Marca	Código
Puser	132
RCA	115
Realistic	132
Regal	112, 118, 140, 141, 142, 145
Regency	134
Rembrandt	105, 132, 137
Samsung	105
Scientific Atlanta	111, 112, 113
Slmark	101, 105
Sprucer	105, 110
Stargate	105, 132
Tel eview	101, 105
Texscan	144
Tocom	135
Toshiba	104
Unika	125, 132
Universal	122, 132
Videoway	106
Viewstar	129, 130
Zenith	100, 117
Zenith /Drae Satellite	100

DBS

Claves para DBS

Marca	Código
Dish Network	105, 115, 116
Echo Star (Echostar)	105
Express VU	105, 115
G.E.	106
G.I. (General Instrument)	108
Gradiente	114
Hitachi	103, 111, 112
HNS (Hughes)	103

Marca	Código
Magnavox	101, 102
Panasonic	104
Philips	101, 102
Primestar	108
Proscan	106, 109, 110, 113
RCA	106, 109, 110, 113
Sony	107
Star Choice	103, 108
Thoshiba	100
Uniden	101, 102

Tabla de teclas operacionales

Esta tabla define qué teclas son operacionales tras la programación (si es necesario), durante el modo de control remoto seleccionado para DTV, CABLE, DBS, VCR, DVD, etc.

NOMBRE DE TECLA	MODO DTV	MODO CABLE	MODO DBS
POWER	ALIMENTACIÓN	ALIMENTACIÓN	ALIMENTACIÓN
CH ▲ / CH ▼	NAVEGACIÓN ARRIBA/ABAJO	CANAL DE CABLE SUPERIOR/ INFERIOR	NAVEGACIÓN DBS HACIA ARRIBA/ABAJO
OK	ACEPTAR	–	MENU DBS
◄ VOL / VOL ►	NAVEGACIÓN DERECHA/ IZQUIERDA	–	NAVEGACIÓN DBS DERECHA/IZQUIERDA
MENU	MENU DTV	–	–
RECALL	INFORMACIÓN DE PROGRAMA	–	INFORMACIÓN DE PROGRAMA DBS
EXIT	SALIDA DE GUÍA ELECTRÓNICA DE PROGRAMA (EPG)	–	SALIDA DE MENU DBS
1 2 3 4 5 6 7 8 9 0	Selección de canales	Selección de canales	Selección de canales
R-TUNE	CANAL STB ANTERIOR	CANAL DE CABLE ANTERIOR	CANAL DBS ANTERIOR
PROG	PROGRAMA DTV/RAYA	–	–
REC	INFORMACIÓN DE GUÍA ELECTRÓNICA DE PROGRAMA (EPG)	–	–
PIP CH DVD/VCR CH ▼ ▲	–	–	CANAL DE DBS SUPERIOR/INFERIOR

Funcionamiento de equipos periféricos utilizando el control remoto

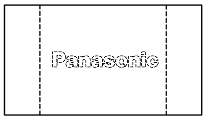
NOMBRE DE TECLA	MODO VCR	MODO DVD/CD		MODO AUX			MODO RCVR
		(DVD)	(CD)	(PVR)	(VCR2)	(TAPE)	
POWER	ALIMENTACIÓN	ALIMENTACIÓN	ALIMENTACIÓN	ALIMENTACIÓN	ALIMENTACIÓN	ALIMENTACIÓN	ALIMENTACIÓN
MUTE	–	–	–	–	–	–	SILENCIAMIENTO DE RCVR
TV/VIDEO	CONMUTACIÓN DE ENTRADA DE TV	–	–	–	CONMUTACIÓN DE ENTRADA DE TV	–	CONMUTACIÓN DE ENTRADA DE RCVR
LIGHT	–	–	–	–	–	–	BOTONES DE CONTROL REMOTO
CH	–	NAVEGACIÓN HACIA ARRIBA/ABAJO	PISTA SIGUIENTE/ ANTERIOR	NAVEGACIÓN HACIA ARRIBA/ABAJO	–	–	SINTONIZADOR +/–
OK	–	–	–	–	–	–	–
VOL	–	–	–	NAVEGACIÓN DERECHA/IZQUIERDA	–	VOLUMEN +/–	VOLUMEN DE RCVR +/–
MENU	–	–	–	MENU PVR	–	–	–
RECALL	VISUALIZACIÓN EN PANTALLA DE VIDEOGRABADORA	VISUALIZACIÓN DE DVD	FORMATO DE TIEMPO	–	VISUALIZACIÓN EN PANTALLA DE VIDEOGRABADORA	–	–
EXIT	–	–	–	SALIDA MENU PVR	–	–	–
1 2 3 4 5 6 7 8 9 0	–	–	–	Selección de canales	–	–	1.... AV1 2.... AV2 3.... AV3 4.... AV4 5.... CD 6.... TUNER 7.... PHONO 8.... TAPE 9.... AUX
R-TUNE	–	–	–	ZONAS DE RELEVO DE CANALES ANTERIORES	–	PLATINA A/B	–
PROG	–	–	–	VUELVA A EN VIVO PVR	–	–	–
PIP MIN REW ◄◄ / PIP MAX FF ►►	REBOBINADO/ AVANCE RÁPIDO DE VIDEOGRABADORA	BÚSQUEDA CON SALTO REBOBINADO/ AVANCE RÁPIDO	BÚSQUEDA EN REBOBINADO/ AVANCE RÁPIDO	–	REBOBINADO/ AVANCE RÁPIDO DE VIDEOGRABADORA	REBOBINADO/ AVANCE RÁPIDO DE CINTA	SONIDO ENVOLVENTE –/+
PLAY ►	REPRODUCCIÓN	REPRODUCCIÓN	REPRODUCCIÓN	REPRODUCCIÓN	REPRODUCCIÓN	REPRODUCCIÓN	–
PAUSE ▮▮	PAUSA	IMAGEN FIJA/ PAUSA	PAUSA	PAUSA	PAUSA	PAUSA	–
STOP ■	PARADA	PARADA	PARADA	–	PARADA	PARADA	–
REC ●	GRABACIÓN DE VIDEOGRABADORA	–	–	GRABACIÓN DE PVR	GRABACIÓN DE VIDEOGRABADORA	GRABACIÓN DE CINTA	–
FREEZE TV/VCR	CONMUTACIÓN DE TV/ VIDEOGRABADORA	LENTA +/–	–	–	CONMUTACIÓN DE TV/ VIDEOGRABADORA	–	–
PIP CH DVD/VCR CH ▼ ▲	CANAL DE VIDEOGRABADORA SUPERIOR/INFERIOR	–	–	ARRIBA/ABAJO DE CANAL PVR	CANAL DE VIDEOGRABADORA SUPERIOR/INFERIOR	–	CENTRO +/– DE RCVR
SEARCH OPEN/CLOSE	–	ABERTURA/ CIERRE	ABERTURA/ CIERRE	SALTO RAPIDO EN PVR	–	–	–

Tabla de solución de problemas

Antes de llamar al servicio de reparaciones, determine los síntomas y siga las soluciones sugeridas.

Síntomas		Soluciones	Página
VÍDEO	AUDIO		
Vídeo con efecto de nieve	Audio con ruido	• Ajuste la ubicación de la antena y su conexión.	13, 14
Imagen múltiple	Audio con ruido	• Ajuste la ubicación de la antena y su conexión. • Compruebe el cable de bajada de antena.	13, 14 13, 14
Interferencia	Audio con ruido	• Separe el televisor de los aparatos eléctricos, luces, vehículos y equipos médicos.	–
Vídeo normal	No hay audio	• Suba el volumen. • Compruebe el silenciamiento. • Compruebe si los altavoces del televisor están encendidos/apagados. • Cambie el canal.	23 20 29 23
No hay vídeo pero sí efecto de nieve	Audio con ruido	• Programa correctamente la entrada. • Compruebe los cables de las antenas.	36 13, 14
? No hay vídeo ni PIP	No hay audio	• Compruebe que el cable de la alimentación esté conectado al tomacorrientes. • Ajuste los controles de brillo y audio. • Cambie el canal. • Compruebe las conexiones de los cables. • Programa el código del control remoto. • Compruebe la operación de la segunda fuente de video. • Asegúrese de que haya un PC conectado a la entrada HDMI. Muy raramente, el televisor no mostrará imágenes en HDMI introducidas desde dispositivos con salida HDMI o DVI debido a la mala comunicación entre el televisor y los dispositivos. Si pasa esto, desenchufe los dispositivos HDMI/DVI y vuelva a enchufarlos.	19 26,28,29 23 13-18 59-61 59-64 15
No hay color	Audio normal	• Ajuste los colores. • Cambie el canal.	26, 27 23
Digitalización de la imagen Congelación de imagen	Interrupción de audio	• Vuelva a orientar la antena de ATSC. • Compruebe el medidor de señales. Si la señal es débil, agregue un reforzador de señales para reforzar la intensidad de la señal.	– 38
Vídeo normal	Audio equivocado	• Compruebe que el modo de audio esté en estéreo o mono, no en SAP. • Cambie el audio del dispositivo HDMI a Linear PCM. • Compruebe el ajuste para HDMI. Si hay un problema funcional con el audio digital, utilice el audio analógico.	21 – 29
Recuadro negro en la pantalla	Audio normal	• Cambia CC (subtítulos ocultos).	39, 40
Vídeo normal	Audio normal	• Reemplace las pilas del control remoto.	9
Operación intermitente del control remoto			
No es posible seleccionar Antenna B (Antena B)		• Realice Auto Scan (Exploración automática).	36

Panel de pantalla de plasma

Síntomas	Verificaciones	Página
Algunas partes de la pantalla no se encienden.	• El panel de la pantalla de plasma se ha fabricado con una tecnología de alto nivel de precisión, sin embargo puede haber partes de la pantalla donde falten elementos de imagen o tengan puntos siempre iluminados. Esto no es un síntoma de avería.	–
 Aparece imagen secundaria.	• No permita que una imagen fija se muestre durante mucho tiempo, porque esto puede ser la causa de que quede una imagen fantasma permanente en la TV de plasma. Los ejemplos de imágenes fijas incluyen logotipos, videojuegos, imágenes de computadora, teletexto e imágenes mostradas en el formato 4:3. **Nota:** La imagen secundaria permanente en la TV de plasma debida a la utilización de una imagen fija no es un defecto de funcionamiento y, por lo tanto, no está cubierta por la garantía. Este producto no ha sido diseñado para visualizar imágenes fijas durante largos plazos de tiempo.	56
Se oyen ruidos de vibración procedentes de la pantalla.	• El televisor está equipado con un ventilador para disipar el calor generado durante el uso normal. El giro del ventilador puede causar un ruido de vibración, pero esto no indica ninguna falla en el funcionamiento. • El televisor consume un poco de energía y hace girar el ventilador, incluso cuando está apagado, para recibir datos de guías de programas, etc. mediante el CableCARD. La rotación puede causar el ruido de vibración, pero esto no indica ninguna falla en el funcionamiento.	– –

Señales de entrada de AV/Componente RGB/PC/HDMI

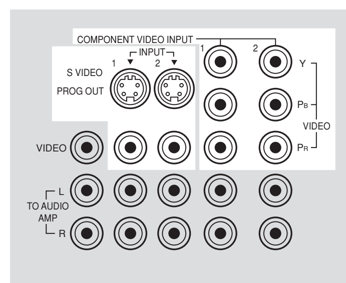
Entrada de VÍDEO

	Nombre de la señal	Frecuencia horizontal (kHz)	Frecuencia vertical (Hz)
1	NTSC	15,73	59,94

Señales de entrada aplicables [asterisco ∗]

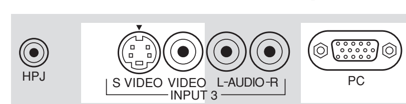
	Nombre de la señal	Frecuencia horizontal (kHz)	Frecuencia vertical(Hz)	Componente	PC	HDMI
1	525 (480) /60i	15,73	59,94	∗	∗	∗
2	525 (480) /60p	31,47	59,94	∗	∗	∗
3	750 (720) /60p	45,00	60,00		∗	
4	1.125 (1.080) /60i	33,75	59,94	∗	∗	∗
5	640 × 400 @70	31,47	70,00		∗	
6	640 × 480 @60	31,47	59,94		∗	
7	Macintosh13” (640 × 480)	35,00	66,67		∗	
8	640 × 480 @75	37,50	75,00		∗	
9	852 × 480 @60	31,50	60,00		∗	
10	800 × 600 @60	37,88	60,32		∗	
11	800 × 600 @75	46,88	75,00		∗	
12	800 × 600 @85	53,67	85,06		∗	
13	Macintosh16” (832 × 624)	49,73	74,55		∗	
14	1.024 × 768 @60	48,36	60,00		∗	
15	1.024 × 768 @70	56,48	70,07		∗	
16	1.024 × 768 @75	60,02	75,03		∗	
17	1.024 × 768 @85	68,68	85,00		∗	
18	Macintosh21” (1.152 × 870)	68,68	75,06		∗	
19	1.280 × 1.024 @60	63,98	60,02		∗	
20	1.280 × 1.024 @75	79,98	75,03		∗	
21	1.280 × 1.024 @85	91,15	85,02		∗	
22	1.600 × 1.200 @60	75,00	60,00		∗	

Nota: Las señales sin las especificaciones de arriba puede que no se visualicen correctamente.

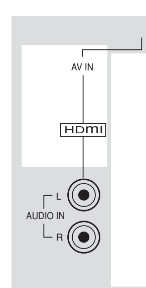


Entrada de VÍDEO

Entrada de Componente



Entrada de VÍDEO **Entrada de PC RGB**



Entrada de HDMI

Especificaciones

	TH-37PX25	TH-42PX25	TH-50PX25
Alimentación	CA 120 V, 50/60 Hz		
Consumo	Máxima: 395 W Condición de espera: 18 W	Máxima: 445 W Condición de espera: 18 W	Máxima : 545 W Condición de espera: 18 W
Panel de pantalla de plasma	37 pulgadas, relación de aspecto de 16:9 Tipo CA con método directo	42 pulgadas, relación de aspecto de 16:9 Tipo CA con método directo	50 pulgadas, relación de aspecto de 16:9 Tipo CA con método directo
Tamaño de la pantalla	32,20 ” (818 mm) (ancho) × 18,15 ” (461 mm) (alto) × 36,97 ” (939 mm) (diagonal)	36,22 ” (920 mm) (ancho) × 20,39 ” (518 mm) (alto) × 41,57 ” (1056 mm) (diagonal)	43,54 ” (1106 mm) (ancho) × 24,49 ” (622 mm) (alto) × 49,96 ” (1269 mm) (diagonal)
Dimensiones (An. × Al. × Prof.)	40,94 ” (1040 mm) × 27,44 ” (697 mm) × 5,47 ” (139 mm)	44,88 ” (1140 mm) × 29,8 ” (757 mm) × 5,47 ” (139 mm)	52,32 ” (1329mm) × 34,25 ” (870 mm) × 5,47 ” (139 mm)
Massa (Peso)	81,6 lb. (37 kg), neto	92,6 lb (42 kg), neto	125,7 lb (57 kg), neto
Capacidad de recepción de canales:ATSC/NTSC	VHF/ UHF : 2-69, CATV:1-135		
Sonido – **Altavoces**	Altavoz de graves ø 80 mm × 2, Altavoz de agudos (16 mm × 73 mm) × 8		
Sonido – **Salida de audio**	26 W [5 W + 5 W, 8 W + 8 W] (10% de distorsión armónica total)		
Sonido – **Auriculares**	1 jacks M3 (3,5 mm)		
CARACTERÍSTICAS	Funciones de visualización en dos pantallas BBE VIVA 3D Subtítulos ocultos	FILTRO Y/C 3D PIP LINEAL V-Chip	HDMI Visor JPEG
Accesorios suministrados	Control remoto: EUR7627Z10 2 pilas R6 (AA) Cable de CA Pedestal Abrazadera × 2	Núcleo de ferrita : grande × 4, pequeño × 5 Adaptador de antena tipo F (3C-2V × 2, 5C-2V × 2)	
Condiciones de funcionamiento	Temperatura: 34°F - 104°F (0° - 40°C) Humedad: 20% - 80% (sin condensación)		

Terminales de conexión

RGB input	D-SUB DE 15	R,G,B / 0,7 Vp-p (75 Ω) HD, VD / 1,0 - 5,0 Vp-p (alta impedancia)
AV INPUT 1- 3	VIDEO (Tipo de jack fonográfico)	1,0 Vp-p (75 Ω)
	S-VIDEO (Mini DIN de 4 contactos)	Y : 1,0 Vp-p (75 Ω), C : 0,286 Vp-p (75 Ω)
	AUDIO L-R (2 jacks tipo fonográfico)	0,5 Vrms
AV PROG. OUT	VIDEO (Tipo de jack fonográfico)	1,0 Vp-p (75 Ω)
	AUDIO L-R (2 jacks tipo fonográfico)	0,5 Vrms
TO AUDIO AMP	AUDIO L-R (2 jacks tipo fonográfico)	0,5 Vrms
COMPONENT VIDEO INPUT1-2	Y	1,0 Vp-p (incluyendo sincronización)
	P_B / P_R	± 0,35 Vp-p
	AUDIO L-R (2 jacks tipo fonográfico)	0,5 Vrms
HDMI	Connectardor HDMI tipo A	
	AUDIO L-R (2 jacks tipo fonográfico)	0,5 Vrms
DIGITAL AUDIO OUT	PCM / Dolby Digital, fibra óptica	

Nota: El diseño y las especificaciones están sujetos a cambios sin previo aviso. El Massa y dimensiones son aproximados.

NOTAS

Anotación del cliente

El modelo y el número de serie de este producto se encuentran en su panel posterior. Deberá anotarlos en el espacio provisto a continuación y guardar este manual, más el recibo de su compra, como prueba permanente de su adquisición, para que le sirva de ayuda al identificarlo en el caso de que le sea sustraído o lo pierda, y también para disponer de los servicios que le ofrece la garantía.

Modelo ______________________ Número de serie ______________________

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